

## JULY 1, 2000, VOL. 86, NO. 1

## CORONARY ARTERY DISEASE

**Noninvasive Strategies for the Estimation of Cardiac Risk in Stable Chest Pain Patients** ..... 1

Leslee J. Shaw, Rory Hachamovitch, Gary V. Heller, Thomas H. Marwick, Mark I. Travin, Ami E. Iskandrian, Karen Kessler, Michael S. Lauer, Robert Hendel, Salvador Borges-Neto, Howard C. Lewin, Daniel S. Berman, and Douglas Miller, for the Economics of Noninvasive Diagnosis (END) Study Group

**Rates of Progression of Coronary Calcium by Electron Beam Tomography** ..... 8

Matthew J. Budoff, Kathleen L. Lane, Hamid Baksheshi, Songshou Mao, Bryan O. Grassmann, Bruce C. Friedman, and Bruce H. Brundage

**Transthoracic Stress Echocardiography With Transesophageal Atrial Pacing for Bedside Evaluation of Inducible Myocardial Ischemia in Patients With New-Onset Chest Pain** ..... 12

Shaul Atar, Bojan Cercek, Tomoo Nagai, Huai Luo, Howard C. Lewin, Tasneem Z. Naqvi, and Robert J. Siegel

**Program Participation, Exercise Adherence, Cardiovascular Outcomes, and Program Cost of Traditional Versus Modified Cardiac Rehabilitation** ..... 17

Joseph J. Carlson, Jeffrey A. Johnson, Barry A. Franklin, and Ronald L. VanderLaan

**Use of Resources, Quality of Life, and Clinical Outcomes in Patients With and Without New Q Waves After Thrombolytic Therapy for Acute Myocardial Infarction (from the GUSTO-I Trial)** ..... 24

Alejandro Barbagelata, Robert M. Califf, Elena B. Sgarbossa, Shaun G. Goodman, David Knight, Daniel B. Mark, Christopher B. Granger, Daniel A. Agranatti, Branco Mautner, E. Magnus Ohman, Luis D. Suárez, Paul W. Armstrong, Kathy Gates, and Galen S. Wagner, for the GUSTO-I Investigators

**Angiographic and Clinical Characteristics Associated With Increased In-Hospital Mortality in Elderly Patients With Acute Myocardial Infarction Undergoing Percutaneous Intervention (A Pooled Analysis of the Primary Angioplasty in Myocardial Infarction Trials)** ..... 30

Vincent S. DeGeare, Gregg W. Stone, Lorelei Grines, Bruce R. Brodie, David A. Cox, Eulogio Garcia, Thomas P. Wharton, Judith A. Boura, William W. O'Neill, and Cindy L. Grines

**Detection of Coronary Restenosis by Exercise Electrocardiography Thallium-201 Perfusion Imaging and Coronary Angiography in Asymptomatic Patients After Percutaneous Transluminal Coronary Angioplasty** ..... 35

Farzin Beygui, Claude Le Feuvre, Christophe Maunoury, Gérard Helft, Thierry Antonietti, Jean Philippe Metzger, and André Vacheron

**Safety and Efficacy of Percutaneous Coronary Interventions Performed Immediately After Diagnostic Catheterization in Northern New England and Comparison With Similar Procedures Performed Later** ..... 41

Samuel J. Shubrooks, Jr., David J. Malenka, Winthrop D. Piper, William A. Bradley, Matthew W. Watkins, Thomas J. Ryan, Jr., Bruce D. Hettelman, Peter N. VerLee, John R. O'Meara, John F. Robb, Mirle A. Kellett, Jr., Michael A. Hearne, Paul D. McGrath, David E. Wennberg, Daniel J. O'Rourke, and Theodore M. Silver, for the Northern New England Cardiovascular Disease Study Group

## PREVENTIVE CARDIOLOGY

**Incremental Reduction of Serum Total Cholesterol and Low-Density Lipoprotein Cholesterol With the Addition of Plant Stanol Ester-Containing Spread to Statin Therapy** ..... 46

Steven N. Blair, David M. Capuzzi, Sidney O. Gottlieb, Tu Nguyen, John M. Morgan, and Nilo B. Cater

**Maximal Exercise Test as a Predictor of Risk for Mortality from Coronary Heart Disease in Asymptomatic Men** ... 53

Larry W. Gibbons, Tedd L. Mitchell, Ming Wei, Steven N. Blair, and Kenneth H. Cooper

## ARRHYTHMIAS AND CONDUCTION DISTURBANCES

**Clinical Characteristics of Patients Intolerant to VVIR Pacing** ..... 59

Kenneth A. Ellenbogen, Bruce S. Stambler, E. John Orav, Elena B. Sgarbossa, Nicholas G. Tullo, Charles A. Love, Mark A. Wood, Lee Goldman, and Gervasio A. Lamas, and the Pacemaker Selection in the Elderly (PASE) Trial Investigators

**Atrial Fibrillation After Beating Heart Surgery** ..... 64

Sotiris C. Stamou, George Dangas, Peter C. Hill, Albert J. Pfister, Mercedes K.C. Dullum, Steven W. Boyce, Ammar S. Bafi, Jorge M. Garcia, and Paul J. Corso

## VALVULAR HEART DISEASE

**Nonobstructive Aortic Valve Calcium as a Window to Atherosclerosis of the Aorta** ..... 68

Yehuda Adler, Mordehay Vaturi, Itay Wisner, Yaron Shapira, Itzhak Herz, Daniel Weisenberg, Noga Sela, Alexander Battler, and Alex Sagie

## INTERVIEW

**RICHARD JOHN BING, MD: A Conversation With J. Willis Hurst, MD** ..... 72

J. Willis Hurst

## BRIEF REPORTS

**Effects of Simvastatin or Hormone Replacement Therapy, or Both, on Fibrinogen, Factor VII, and Plasminogen Activator Inhibitor Levels in Postmenopausal Women With Proven Coronary Artery Disease** ..... 80

Eftihia Sbarouni, Efthimia Melissari, Zenon S. Kyriakides, and Dimitrios Th. Kremastinos

**Relation Between C-Reactive Protein Levels on Admission and Pattern of Acute Myocardial Infarction Onset** ..... 83

Masami Kosuge, Kazuo Kimura, Toshiyuki Ishikawa, Tsutomu Endo, Tomohiko Shigemasa, Jun Okuda, Mitsugi Sugiyama, Osamu Tochikubo, and Satoshi Umemura

**Effectiveness of Rotational Atherectomy in Narrowed Left Internal Mammary Artery Grafts to the Left Anterior Descending Coronary Artery** ..... 86

William J. Thomas, Michael J. Cowley, George W. Vetrovec, Walter Malloy, and Evelyn Goudreau

**Effectiveness of Rotational Atherectomy in Aortocoronary Saphenous Vein Grafts** ..... 88

William J. Thomas, Michael J. Cowley, George W. Vetrovec, Walter Malloy, and Evelyn Goudreau

**Prevalence of the Brugada Syndrome in an Apparently Healthy Population** ..... 91

Jean-Sylvain Hermida, Jean-Luc Lemoine, Fadi Bou Aoun, Geneviève Jarry, Jean-Luc Rey, and Jean-Claude Quiret

**Comparison of Intravenous Adrenomedullin With Atrial Natriuretic Peptide in Patients With Congestive Heart Failure** ..... 94

Hideo Oya, Noritoshi Nagaya, Shinichi Furuichi, Toshio Nishikimi, Kazuyuki Ueno, Norifumi Nakanishi, Masakazu Yamagishi, Kenji Kangawa, and Kunio Miyatake

**The Spectrum of Pulmonary Abnormalities on Computed Chest Tomographic Imaging in Patients With Advanced Heart Failure** ..... 98

Sami Lewin, Lee Goldberg, and G. William Dec

**Pilot Study of Guided Imagery Use in Patients With Severe Heart Failure** ..... 101

Lorissa Klaus, Aina Beniaminovitz, Lorraine Choi, Fran Greenfield, Gerard C. Whitworth, Mehmet C. Oz, and Donna M. Mancini

**Analysis of Agreement Between Dobutamine Stress Echocardiography and Exercise Nuclear Angiography in Severe Aortic Regurgitation** ..... 104

Vincenzo De Rito, Rosaria Natali, Carlo Vigna, Gian Piero Perna, Mario Stanislao, Antonella Lombardo, Aldo Russo, Giovanni Forleo, Raffaele Fanelli, and Francesco Loperfido

**Dose and Duration of Fenfluramine-Phentermine Therapy Impacts the Risk of Significant Valvular Heart Disease** ..... 107

Norman E. Lepor, Stacey B. Gross, William L. Daley, Bruce A. Samuels, Michael J. Rizzo, Sean P. Luko, Ann Hickey, Neil A. Buchbinder, and Tasneem Z. Naqvi

**Clinical and Echocardiographic Features of Hypereosinophilic Syndromes** ..... 110

Steve R. Ommen, James B. Seward, and A. Jamil Tajik

**Usefulness of Doppler Echocardiography to Determine the Timing of Surgery for Supravalvar Aortic Stenosis** .... 114

Lloyd Y. Tani, L. LuAnn Minich, Luciana T. Pagotto, and Robert E. Shaddy

**Effect of Low Molecular Weight Heparin on Coronary Endothelial Function in Acute Cellular Heart Transplant Rejection** ..... 117

Jay D. Schlaifer and Roger M. Mills

**Anatomic Landmarks for Use When Measuring Intracardiac Pressure With Fluid-Filled Catheters** ..... 121

Lauren K. Brown, Frederic R. Kahl, Kerry M. Link, Craig A. Hamilton, David C. Goff, William C. Little, and W. Gregory Hundley

**READERS' COMMENTS**

**Why Not Phenytoin?** ..... 125

**Association Between Elevated Plasma Fibrinogen and the Small, Dense Low-Density Lipoprotein Phenotype Among Postmenopausal Women** ..... 126

**JULY 15, 2000, VOL. 86, NO. 2**

**CORONARY ARTERY DISEASE**

**Usefulness of Topography of Coronary Calcium by Electron-Beam Computed Tomography in Predicting the Natural History of Coronary Atherosclerosis** ..... 127

Axel Schmermund, Stefan Möhlenkamp, Dietrich Baumgart, Paul Kriener, Heiko Pump, Dietrich Grönemeyer, Rainer Seibel, and Raimund Erbel

**Management of Coronary Risk Factors by Registered Nurses Versus Usual Care in Patients With Unstable Angina Pectoris (A Chest Pain Evaluation in the Emergency Room [CHEER] Substudy)** ..... 133

Thomas G. Allison, Michael E. Farkouh, Peter A. Smars, Roger W. Evans, Ray W. Squires, Sherine E. Gabriel, Stephen L. Kopecky, Raymond J. Gibbons, and Guy S. Reeder, for the Chest Pain Evaluation in the Emergency Room (CHEER) Investigators

**Effect of Quinapril Initiated During Progressive Remodeling in Asymptomatic Patients With Healed Myocardial Infarction** ..... 139

Peter Gaudron, Ingrid Kugler, Kai Hu, Daniela Fraccarollo, Wolfgang Bauer, Christoph Eilles, and Georg Ertl

**A Prospective Study of Dominance and Coronary Heart Diseases in the Normative Aging Study** ..... 145

Aron W. Siegelman, Laura D. Kubzansky, Ichiro Kawachi, Stephen Boyle, Pantel S. Vokonas, and David Sparrow

**In Vivo Demonstration of an Antithrombin Effect of Abciximab** ..... 150

John A. Ambrose, Marian Hawkey, Juan J. Badimon, John Coppola, Jean-Pierre Geagea, K. Peter Rentrop, Alvaro Domiguez, Srinivas Duvvuri, Thomas Elmquist, Jose Arias, Ramy Doss, and George Dangas

- Comparison of Baseline and Low-Dose Dobutamine Technetium-99m Sestamibi Scintigraphy With Low-Dose Dobutamine Echocardiography for Predicting Functional Recovery After Revascularization** ..... 153  
 Mario Leoncini, Gabriella Marcucci, Roberto Sciagrà, Dante Mondanelli, Anna Maria Traini, Massimo Magni, Fabio Frascarelli, Alberto Mennuti, and Roberto P. Dabizzi

## CONGESTIVE HEART FAILURE

- Echocardiographic Determinants of Mortality in Patients >67 Years of Age With Chronic Heart Failure** ..... 158  
 Viorel G. Florea, Michael Y. Henein, Marianantonietta Cicoira, Stefan D. Anker, Wolfram Doeber, Piotr Ponikowski, Darrel P. Francis, Derek G. Gibson, and Andrew J.S. Coats

## CARDIOMYOPATHY

- Utility of Cardiopulmonary Exercise in the Assessment of Clinical Determinants of Functional Capacity in Hypertrophic Cardiomyopathy** ..... 162  
 Sanjay Sharma, Perry Elliott, Greg Whyte, Soraya Jones, Niall Mahon, Brian Whipp, and William John McKenna

## METHODS

- Noninvasive Assessment of Left Ventricular End-Diastolic Pressure by the Response of the Transmittal A-Wave Velocity to a Standardized Valsalva Maneuver** ..... 169  
 Ehud Schwammenthal, Bogdan A. Popescu, Andreea C. Popescu, Elio Di Segni, Elieser Kaplinsky, Babeth Rabinowitz, Victor Guetta, Shmuel Rath, and Micha S. Feinberg

## EDITORIAL

- Management of Sexual Dysfunction in Patients With Cardiovascular Disease: Recommendations of the Princeton Consensus Panel** ..... 175  
 Robert DeBusk, Yaacov Drory, Irwin Goldstein, Graham Jackson, Sanjay Kaul, Stephen E. Kimmel, John B. Kostis, Robert A. Kloner, Milton Lakin, Cindy M. Meston, Murray Mittleman, James E. Muller, Harin Padma-Nathan, Raymond C. Rosen, Richard A. Stein, and Randall Zusman

## INTERVIEWS

- VALENTIN FUSTER, MD, PhD: A Conversation With the Editor** ..... 182  
 William C. Roberts

- HENRY ARTHUR SOLOMON, MD: A Conversation With the Editor** ..... 198  
 William C. Roberts

## BRIEF REPORTS

- Relation of C-Reactive Protein to Extent and Severity of Coronary Narrowing in Patients With Stable Angina Pectoris or Abnormal Exercise Tests** ..... 205  
 Rabih R. Azar, Gaby Aoun, Daniel B. Fram, David D. Waters, Alan H.B. Wu, and Francis J. Kiernan

- Late Prognostic Value of Flow-Mediated Vasodilation in the Brachial Artery of Patients With Chest Pain** ..... 207

Thomas Neunteufl, Sandra Heher, Reinhold Katzenschlager, Gabriele Wölfl, Karam Kostner, Gerald Maurer, and Franz Weidinger

- Prognostic Value of Exercise Testing in Women After Acute Coronary Syndromes (The Stockholm Female Coronary Risk Study)** ..... 211  
 Faris AlKhalili, Sarah P. Wamala, Kristina Orth-Gomér, and Karin Schenck-Gustafsson

- Patterns of Aspirin Use Before Hospitalization for Acute Myocardial Infarction** ..... 214  
 David P. Lorenz, David P. Lee, and Edwin L. Alderman

- Breast Artery Calcium on Routine Mammography as a Potential Marker for Increased Risk of Cardiovascular Disease** ..... 216  
 Pavel Crystal, Eugene Crystal, Jonathan Teor, Michael Friger, George Katzinovitch, and Selwyn Strano

- Direct Assessment of Palmar Circulation Before Transradial Coronary Intervention by Color Doppler Ultrasonography** ..... 218  
 Naoyuki Yokoyama, Satoshi Takeshita, Masahiko Ochiai, Satoshi Hoshino, Yutaka Kayama, Akio Oshima, Takaaki Isshiki, and Tomohide Sato

- Comparison of Effects of Simvastatin Versus Atorvastatin on High-Density Lipoprotein Cholesterol and Apolipoprotein A-I Levels** ..... 221  
 John J.P. Kastelein, Jonathan L. Isaacs, Leiv Ose, Donald B. Hunninghake, Jiri Frohlich, Michael H. Davidson, Rafik Habib, Carlos A. Dujovne, John R. Crouse III, Minzhi Liu, Michael R. Melino, Laura O'Grady, Michele Mercuri, and Yale B. Mitchell, for the Simvastatin Atorvastatin HDL Study Group

- Role of Atrial Pressure in the Success of Electrical Cardioversion of Chronic Atrial Fibrillation** ..... 223  
 Ömer Akyürek, Fatih Sinan Ertaş, Erdem Diker, Remzi Karaoğuz, Muharrem Güldal, and Derviş Oral

- Diurnal Variations of the Ventricular Pacing Threshold in Patients With Cardiac Pacemakers Are Not Related to Changes in Autonomic Tone** ..... 226  
 Andreas Schuchert, Gina Behrens, and Thomas Meinertz

- KL-6 as a Potential New Marker for Amiodarone-Induced Pulmonary Toxicity** ..... 229  
 Yasuhiro Endoh, Ritsuko Hanai, Kenta Uto, Motoki Uno, Hirotaka Nagashima, Akiko Narimasu, Takao Takizawa, Satoshi Onishi, and Hiroshi Kasanuki

- Usefulness of Suppression of Ventricular Arrhythmia by Biventricular Pacing in Severe Congestive Cardiac Failure** ..... 231  
 Stuart Walker, Terry M. Levy, Steve Rex, Sandra Brant, Jon Allen, Charles J.D. Isley, and Vincent E. Paul

- Reduced Indexes of Left Atrial Hypercoagulability in Patients With Severe Mitral Regurgitation** ..... 234  
 Ira R.A. Goldsmith, Andrew D. Blann, Ramesh L. Patel, and Gregory Y.H. Lip

<b>Pulsed Doppler Echocardiographic Assessment of the Fetal PR Interval</b> .....	<b>236</b>
Julie S. Glickstein, Jill Buyon, and Deborah Friedman	

<b>Clinical Significance of Pulmonary Arteriovenous Malformations After Staging Bidirectional Cavopulmonary Anastomosis</b> .....	<b>239</b>
William T. Mahle, Jack Rychik, and Jonathan J. Rome	

<b>Behavior of C-Reactive Protein Levels in Medically Treated Aortic Dissection and Intramural Hematoma</b> .....	<b>242</b>
Shinji Makita, Atsushi Ohira, Rintaro Tachieda, Shigehiro Itoh, Yoshiteru Mori, Kunihiro Yoshioka, Hiroyuki Niinuma, Motoyuki Nakamura, and Katsuhiko Hiramori	

<b>Left Atrial Kinetic Energy in AL Amyloidosis: Can It Detect Early Dysfunction?</b> .....	<b>244</b>
Laura Murphy and Rodney H. Falk	

<b>Increased Thrombus Formation Relates to Ambient Blood Glucose and Leukocyte Count in Diabetes Mellitus Type 2</b> .....	<b>246</b>
Ursula Rauch, Jill Crandall, Julio I. Osende, John T. Fallon, James H. Chesebro, Valentin Fuster, and Juan J. Badimon	

<b>Aggressive Lipid-Lowering Initiation Abates New Cardiac Events (ALLIANCE)—Rationale and Design of Atorvastatin Versus Usual Care in Hypercholesterolemic Patients With Coronary Artery Disease</b> .....	<b>250</b>
Jonathan L. Isaacsohn, Michael H. Davidson, Donald Hunninghake, Robert Singer, Richard McLain, and Donald M. Black	

## CASE REPORT

<b>Aorto-Left Ventricular Tunnel: Transcatheter Closure Using an Amplatzer Duct Occluder Device</b> .....	<b>253</b>
Massimo Chessa, Milind Chaudhari, and Joseph Vincent De Giovanni	

## READERS' COMMENTS

<b>P Terminal Force in Lead V<sub>1</sub></b> .....	<b>255</b>
<b>Appropriate Treatment of Aortic Intramural Hematoma</b> .....	<b>255</b>
<b>Our Ancestors Had It Right</b> .....	<b>256</b>

## JULY 20, 2000, VOL. 86, NO. 2A

A Symposium: Sexual Activity and Cardiac Risk: The Princeton Conference

## AUGUST 1, 2000, VOL. 86, NO. 3

### CORONARY ARTERY DISEASE

<b>Follow-Up Study of Patients Randomized in the Scandinavian Simvastatin Survival Study (4S) of Cholesterol Lowering</b> .....	<b>257</b>
---	------------

Terje R. Pedersen, Lars Wilhelmsen, Ole Faergeman, Timo E. Strandberg, Gudmundur Thorgerisson, Linda Troedsson, Johan Kristianson, Kåre Berg, Thomas J. Cook, Torben Haghefelt, John Kjekshus, Tatu Miettinen, Anders G. Olsson, Kalevi Pyörälä, and Hans Wedel, on behalf of the Scandinavian Simvastatin Survival Study Group

<b>Fibrin Specificity and Procoagulant Effect Related to the Kallikrein-Contact Phase System and to Plasmin Generation With Double-Bolus Reteplase and Front-Loaded Alteplase Thrombolysis in Acute Myocardial Infarction</b> .....	<b>263</b>
Hans Martin Hoffmeister, Christof Kastner, Sebastian Szabo, Martin E. Beyer, Uwe Helber, Silke Kazmaier, Andreas Baumbach, Hans Peter Wendel, and Wolfgang Heller	

<b>Synergy Between Intracoronary Stenting and Abciximab in Improving Angiographic and Clinical Outcomes of Primary Angioplasty in Acute Myocardial Infarction</b> .....	<b>269</b>
Satyendra Giri, Joseph F. Mitchel, Jeffrey A. Hirst, Raymond G. McKay, Rabi R. Azar, Roger Mennett, David D. Waters, and Francis J. Kiernan	

<b>Long-Term Effects of Diltiazem and Verapamil on Mortality and Cardiac Events in Non-Q-Wave Acute Myocardial Infarction Without Pulmonary Congestion: Post Hoc Subset Analysis of the Multicenter Diltiazem Postinfarction Trial and the Second Danish Verapamil Infarction Trial Studies</b> .....	<b>275</b>
Robert S. Gibson, Jørgen Fischer Hansen, Franz Messerli, Kenneth B. Schechtman, and William E. Boden	

<b>Ankle/Brachial Blood Pressure in Men &gt;70 Years of Age and the Risk of Coronary Heart Disease</b> .....	<b>280</b>
Robert D. Abbott, Helen Petrovitch, Beatriz L. Rodriguez, Katsuhiko Yano, Irwin J. Schatz, Jordan S. Popper, Kamal H. Masaki, G. Webster Ross, and J. David Curb	

<b>Relation of Serum Triglyceride Levels to Survival After Coronary Artery Bypass Grafting</b> .....	<b>285</b>
Dennis L. Sprecher, Gregory L. Pearce, Delos M. Cosgrove, Bruce W. Lytle, Floyd D. Loop, and Fredric J. Pashkow	

<b>Identification of Patients at Risk by Graded Exercise Testing in an Emergency Department Chest Pain Center</b> .....	<b>289</b>
Deborah B. Diercks, W. Brian Gibler, Tiepu Liu, Michael R. Sayre, and Alan B. Storrow	

<b>Comparison of Simultaneous Dobutamine Echocardiography and Thallium-201 Stress-Reinjection Single-Photon Emission Computed Tomography in Predicting Improvement of Chronic Myocardial Dysfunction After Revascularization</b> .....	<b>293</b>
Lung-Chun Lin, Yi-Lwun Ho, Chau-Chung Wu, Ming-Fong Chen, Chiau-Suong Liao, Cheng-Tau Su, and Por-Jau Huang	

### PREVENTIVE CARDIOLOGY

<b>Population Frequency Distribution of Non-High-Density Lipoprotein Cholesterol (Third National Health and Nutrition Examination Survey [NHANES III], 1988-1994)</b> .....	<b>299</b>
Christopher D. Gardner, Marilyn A. Winkleby, and Stephen P. Fortmann	



## SYSTEMIC HYPERTENSION

### Evaluation of Coronary Flow Reserve in Hypertensive Patients by Diprydamole Transesophageal Doppler Echocardiography .....305

Mohamed S. Hamouda, Hanan K. Kassem, Mai Salama, Magdy El Masry, Naseem Shaaban, Ekram Sadek, Bijoy K. Khandheria, James B. Seward, and Abdou Elhendy

## CARDIOMYOPATHY

### Association of Hyperglycemia With Reduced Heart Rate Variability (The Framingham Heart Study) .....309

Jagmeet P. Singh, Martin G. Larson, Christopher J. O'Donnell, Peter F. Wilson, Hisako Tsuji, Donald M. Lloyd-Jones, and Daniel Levy

## CONGENITAL HEART DISEASE

### Evaluation of Calibration Methods for Size Estimation in the Pediatric Cardiac Catheterization Laboratory .....313

Eytan Szmilowicz, Mark S. Sklansky, Nafiz Kiciman, Saskia Hilton, and Abraham Rothman

### Influence of Ventricular Morphology on Outcome After the Fontan Procedure .....319

Paul R. Juiusrud, Thomas J. Weigel, Jacques A. Van Son, William D. Edwards, Douglas D. Mair, David J. Driscoll, Gordon K. Danielson, Francisco J. Puga, and Kenneth P. Offord

## EDITORIALS

### Initial Energy for Electrical Cardioversion of Atrial Fibrillation—Is More Better? .....324

D. George Wyse

### Cardioversion of Atrial Fibrillation to Sinus Rhythm: Who, When, How, and Why? .....326

Eric N. Prystowsky

## BRIEF REPORTS

### Effects of Age, Sex, Race, Diagnosis-Related Group, and Hospital Setting on Lipid Management in Patients With Coronary Artery Disease .....328

Sarah E. Rich, Jay Shah, Daniel S. Rich, Rishi Shah, and Michael W. Rich

### Long-Term (Three Years) Effect of Estrogen Replacement Therapy on Major Adverse Cardiac Events in Postmenopausal Women After Intracoronary Stenting .....330

Masroor A. Khan, Ming W. Liu, Devinderjit Singh, Ashish Pal, Francisco L. Chio, David Lawson, and Larry S. Dean

### Noninvasive Risk Stratification in Women With Uncomplicated Acute Myocardial Infarction .....333

Alessandro Desideri, Riccardo Bigi, Raffaele Terlizzi, Lauro Cortigiani, Gian Leone Suzzi, Giuliana Ginocchio, Leopoldo Celegon, and Paolo Fioretti

### Usefulness of Stent Length in Predicting In-Stent Restenosis (The MULTI-LINK Stent Trials) .....336

Dean Kereiakes, Thomas J. Linnemeier, Donald S. Baim, Richard Kuntz, Charley O'Shaughnessy, James Hermiller, Stan Fink, Alexandra Lansky, Naomi Nishimura, Thomas M. Broderick, and Jeffrey Popma

### Usefulness of ST Elevation II/III Ratio and ST Deviation in Lead I for Identifying the Culprit Artery in Inferior Wall Acute Myocardial Infarction .....341

Boon-Lock Chia, James W.L. Yip, Huay-Cheem Tan, and Yean-Teng Lim

### Polytetrafluoroethylene-Covered Stent for the Treatment of Narrowings in Aorticocoronary Saphenous Vein Grafts .....343

Carlo Brigatori, Joseph De Gregorio, Takahiro Nishida, Milena Adamian, Remo Albiero, Gina Tucci, Carlo Di Mario, and Antonio Colombo

### Increase Plasma Homocysteine Is an Independent Predictor of New Coronary Events in Older Persons ....346

Wilbert S. Aronow and Chul Ahn

### Initial Energy for Elective External Cardioversion of Persistent Atrial Fibrillation .....348

Jose A. Joglar, Mohamed H. Hamdan, Karthik Ramaswamy, Jason D. Zagrodzky, Clifford J. Sheehan, Lauren L. Nelson, Thomas C. Andrews, and Richard L. Page

### Clinical, Echocardiographic, and Hormonal Factors Influencing Spontaneous Conversion of Recent-Onset Atrial Fibrillation to Sinus Rhythm .....351

Anna Vittoria Mattioli, Daniela Vivoli, Paola Borella, and Giorgio Mattioli

### Comparison of One-Year Outcome in Women Versus Men With Chronic Congestive Heart Failure .....353

Cristina Opasich, Luigi Tavazzi, Donata Lucci, Marco Gorini, Maria Cecilia Albanese, Giuseppe Cacciatore, and Aldo P. Maggioni, on behalf of the Italian Network on Congestive Heart Failure (IN-CHF) Investigators

### Evaluation of a Noninvasive Index of Global Ventricular Function to Predict Rejection After Pediatric Cardiac Transplantation .....358

Stephen J. Mooradian, Caren S. Goldberg, Dennis C. Crowley, and Achiau Ludomirsky

### Late Follow-Up After Thoracoscopic Ductal Ligation ...360

Andrew S. Bensky, Karen H. Raines, and Michael H. Hines

### Malignant Cardiac Tamponade in Women With Breast Cancer Treated by Percardiocentesis and Intrapericardiac Administration of Triethylenethiophosphoramide (Thiotepa) .....362

Theodore S. Bishiniotis, Soumela Antoniadou, George Katseas, Despina Mouratidou, Andreas G. Litos, and Nikolaos Balamoutso

### Relation of Blunted Dilation of the Brachial Artery in Insulin-Dependent Diabetes Mellitus to Microalbuminuria .....364

Pavel Poredos and Anita Kek

## INTERACTIVE GRAND ROUNDS

- Case 6: Renovascular Hypertension** ..... 368  
Robert A. Kloner and Vincent E. Friedewald, Jr.

## READER'S COMMENT

- Dispersion in Electrocardiography Has Become Epidemic** ..... 370

AUGUST 15, 2000, VOL. 86, NO. 4

## CORONARY ARTERY DISEASE

- Comparison of Low-Dose Dobutamine Ventriculography With Low-Dose Dobutamine Echocardiography for Predicting Regional Improvement in Left Ventricular Function After Coronary Artery Bypass Grafting** ..... 371  
Laura Dalla Vecchia, Tania Storti, Chiara Cogliati, Stefano Guzzetti, Paolo Danna, Roberto Scrofani, Pietro Di Biasi, and Alberto Malliani

- Angiographic and Clinical Outcome of Mild to Moderate Nonocclusive Unstented Coronary Artery Dissection and the Influence on Coronary Flow Velocity Reserve** ..... 375  
M. Albertal, G. Van Langenhove, I.P. Kay, M.A. Costa, K. Kozuma, and Patrick W. Serruys

- Effect of Prior Exposure to *Chlamydia Pneumoniae*, *Helicobacter Pylori*, or Cytomegalovirus on the Degree of Inflammation and One-Year Prognosis of Patients With Unstable Angina Pectoris or Non-Q-Wave Acute Myocardial Infarction** ..... 379  
Rémi Choussat, Gilles Montalescot, Jean-Philippe Collet, Claude Jardel, Annick Ankri, Anne-Marie Fillet, Danielle Thomas, Josette Raymond, Jean-Philippe Bastard, Gérard Drobinski, Jeanne Orfila, Henri Agut, and Daniel Thomas

- Heparin-Coated Wiktor Stent in Human Coronary Arteries (MENTOR Trial)** ..... 385  
Matty C.M. Vrolix, Victor M. Legrand, Johan H.C. Reiber, Gille Grollier, Martin J. Schalij, Phillippe Brunel, Louis Martinez-Elbal, Manuel Gomez-Recio, Frits W.H.M. Bär, Michel E. Bertrand, Antonio Colombo, and Johannes Brachman, for the MENTOR Trial Investigators

- Six-Month Outcome After Excimer Laser Coronary Angioplasty for Diffuse In-Stent Restenosis in Native Coronary Arteries** ..... 390  
Jaap N. Hamburger, David P. Foley, Pim J. de Feyter, Alexander J. Wardeh, and Patrick W. Serruys

- Outcome of Coronary Revascularization in Patients on Renal Dialysis** ..... 395  
Mehmet Agirbasli, William S. Weintraub, George L. Chang, Spencer B. King III, Robert A. Guyton, Trevor D. Thompson, Fadi Alameddine, and Ziyad M.B. Ghazzal

- Reappraising the Role of Immediate Intervention Following Thrombolytic Recanalization in Acute Myocardial Infarction** ..... 400

Ever D. Grech, Andrew G.C. Sutton, Philip G. Campbell, Victoria J. Ashton, Dallas J.A. Price, James A. Hall, and Mark A. de Belder

## PREVENTIVE CARDIOLOGY

- Effects of Simvastatin (40 and 80 mg/day) in Patients With Mixed Hyperlipidemia** ..... 406  
Evan Stein, Diane Plotkin, Harold Bays, Michael Davidson, Carlos Dujovne, Stanley Korenman, Michael Stepanavage, and Michele Mercuri

- Low-Density Lipoprotein Particle Size, Triglycerides, and High-Density Lipoprotein Cholesterol as Risk Factors for Coronary Heart Disease in Older Japanese-American Men** ..... 412  
Melissa A. Austin, Beatriz L. Rodriguez, Barbara McKnight, Marguerite J. McNeely, Karen L. Edwards, J. David Curb, and Dan S. Sharp

## CONGESTIVE HEART FAILURE

- Prognostic Value of Neurohormonal Activation and Cardiopulmonary Exercise Testing in Patients With Chronic Heart Failure** ..... 417  
Richard Isnard, Françoise Pousset, Jean-Noël Trochu, Olga Chafirovskaia, Alain Carayon, Jean-Louis Golmard, Philippe Lechat, Daniel Thomas, Jean-Briec Bouhour, and Michel Komajda

- Neuroadrenergic Activation and Response to Dobutamine in Congestive Heart Failure Secondary to Idiopathic Dilated Cardiomyopathy** ..... 422  
Carlo Vigna, Saverio Fusilli, Rosaria Natali, Aldo Russo, Vincenzo De Rito, Giovanni Pio Siena, Nicola Cianfrone, Antonella Lombardo, Raffaele Fanelli, and Francesco Loperfido

## VALVULAR HEART DISEASE

- Validation of the Ejection Fraction-Velocity Ratio: A New Simplified "Function-Corrected" Index for Assessing Aortic Stenosis Severity** ..... 427  
Francesco Antonini-Canterin, Daniela Pavan, Claudio Burelli, Matteo Cassin, Eugenio Cervesato, and Gian Luigi Nicolosi

## CONGENITAL HEART DISEASE

- Pulmonary Vascular Disease in Down's Syndrome With Complete Atrioventricular Septal Defect** ..... 434  
Kiyoshi Suzuki, Shigeo Yamaki, Shigekazu Mimori, Yasuo Murakami, Katsuhiko Mori, Yukihiro Takahashi, and Toshio Kikuchi

## MISCELLANEOUS

- Moderators of the Effect of Social Support on Depressive Symptoms in Cardiac Patients** ..... 438  
John C. Barefoot, Beverly H. Brummett, Nancy E. Clapp-Channing, Ilene C. Siegler, Peter P. Vitaliano, Redford B. Williams, and Daniel B. Mark

## CARDIOVASCULAR PHARMACOLOGY

### **Nadolol Inhibits Reactive Oxygen Species Generation by Leukocytes and Linoleic Acid Oxidation** ..... 443

Cesar H. Magsino, Jr., Wael Hamouda, Vini Bapna, Husam Ghanim, Ihab A. Abu-Reish, Ahmad Aljada, and Paresh Dandona

## BRIEF REPORTS

### **Usefulness of the Blood Lymphocyte Count in Predicting Recurrent Instability and Death in Patients With Unstable Angina Pectoris** ..... 449

Emmanouil G. Zouridakis, Xavier Garcia-Moll, and Juan Carlos Kaski

### **Stent Implantation Neutralizes the Impact of Preintervention Arterial Remodeling on Subsequent Target Lesion Revascularization** ..... 452

George Dangas, Gary S. Mintz, Roxana Mehran, Javed M. Ahmed, Alexandra J. Lansky, Augusto D. Pichard, Lowell F. Satler, Kenneth M. Kent, Gregg W. Stone, and Martin B. Leon

### **Usefulness of Providing Physicians the Results of Risk Factor Assessments and Treatment Recommendations at Discharge After Coronary Artery Bypass Grafting** ..... 455

Joseph P. Folkis, Gordon G. Blackburn, Gregory L. Pearce, and Dennis L. Sprecher

### **Usefulness of the Electrocardiogram in Predicting Stent Patency in Patients Presenting With Chest Pain Within One Month of Coronary Stenting** ..... 458

Chris A. Glover, Michel R. Le May, Jennifer L. Jelley, Pat A. Doucette, and Lyall A. Higginson

### **Relation of Preservation of Nitric Oxide-Dependent Coronary Vasomotor Function to Plasma Vitamin C Concentrations in Cardiac Transplant Recipients** ..... 460

James C. Fang, Scott Kinlay, Hiroyuki Hikita, Jung H. Suh, Robert N. Piana, Andrew P. Selwyn, Balz Frei, Jason D. Morrow, and Peter Ganz

### **Limited Clinical Value of Exercise Stress Test for the Screening of Coronary Artery Disease in Young, Asymptomatic Adult Men** ..... 462

Shy Livschitz, Yehonata Sharabi, Johanan Yushin, Zvia Bar-On, Pierre Chouraqui, Moshe Burstein, and Arie Eldad

### **Aspirin Use Among Women Physicians in the United States** ..... 465

Erica Frank, Laurence Sperling, and Kelvin Wu

### **Relation of Coronary Artery Calcium to Exercise Testing in Healthy Subjects** ..... 467

Dimitrios Alexopoulos, Theodoros Toulgaridis, George Sifafidis, John Christodoulou, Christos Stathopoulos, and George Hahalis

### **Prolongation of QT Interval Corrected for Heart Rate by Bazett's Equation and Linear Formula as Predictor of Arrhythmic Events After Myocardial Infarction** ..... 469

Andrzej Dąbrowski, Elżbieta Kramarz, and Leszek Kubik

### **Effects of Intravenous Etilefrine in Neurocardiogenic Syncope Induced by Head-Up Tilt Testing** ..... 472

Fabrizio Ammirati, Furio Colivicchi, and Massimo Santini

### **Increased Cardiac Levels of Nitric Oxide in Patients With Chronic Heart Failure** ..... 474

Koichi Node, Masafumi Kitakaze, Fumiki Yoshihara, Tatsuya Sasaki, Tsunehiko Kuzuya, and Masatsugu Hori

### **Effect of Estrogen on Exercise Electrocardiograms in Healthy Postmenopausal Women** ..... 477

Karen S. Rovang, Amy J. Arouni, Syed M. Mohiuddin, Aaron Tejani, and Daniel E. Hilleman

### **Myocardial Contrast Echocardiography With Power Doppler Imaging** ..... 479

Kirk T. Spencer, Paul A. Grayburn, Victor Mor-Avi, James Bednarz, Richard A. Grimm, Kathy Furlong, Rhonda F. Farnum, Susan D. Floer, Paul J. Widner, and Roberto M. Lang

## READERS' COMMENTS

### **Estrogen and Atherothrombosis Editorial** ..... 482

### **Possible Mechanisms of Increased Blood Viscosity in Systemic Hypertension** ..... 483

### **Arrhythmic Right Ventricular Cardiomyopathy** ..... 483

### **Correction** ..... 484

---

## AUGUST 17, 2000, VOL. 86, NO. 4A

### **A Symposium: Tenth International Congress on Echocardiography: Clinical Cardiology**

---

## AUGUST 24, 2000, VOL. 86, NO. 4B

### **Management of the Patient After Percutaneous Coronary Intervention: Examining the Need for a Continuum of Care**

---

## SEPTEMBER 1, 2000, VOL. 86, NO. 5

## CORONARY ARTERY DISEASE

### **Impact of End-Stage Renal Disease on Clinical and Angiographic Outcomes After Coronary Stenting** ..... 485

Rabih R. Azar, Ross Prpic, Kalon K.L. Ho, Francis J. Kiernan, Samuel J. Shubrooks, Jr., Donald S. Baim, Jeffrey J. Popma, Richard E. Kuntz, and David J. Cohen

### **Effect of Coronary Artery Bypass Surgery on Myocardial Perfusion and Ejection Fraction Response to Inotropic Stimulation in Patients Without Improvement in Resting Ejection Fraction** ..... 490

Abdou Elhendy, Jan H. Cornel, Ron T. van Domburg, Jeroen J. Bax, and Jos R.T.C. Roelandt

- Coronary Artery Calcium Evaluation by Electron Beam Computed Tomography and Its Relation to New Cardiovascular Events** .....495  
Nathan D. Wong, Jeffrey C. Hsu, Robert C. Delrano, George Diamond, Harvey Eisenberg, and Julius M. Gardin

- Effects of Cilostazol on Angiographic Restenosis After Coronary Stent Placement** .....499  
Seong-Wook Park, Cheol Whan Lee, Hyun-Sook Kim, Nae-Hee Lee, Deuk Young Nah, Myeong-Ki Hong, JaeJoong Kim, and SeungJung Park

## ARRHYTHMIAS AND CONDUCTION DISTURBANCES

- Cerebral Hemodynamics in Carotid Sinus Syndrome and Atrioventricular Block** .....504  
Georges Lefthériotis, Jean-Marc Dupuis, and Jacques Victor

## SYSTEMIC HYPERTENSION

- Subclinical Left Ventricular Dysfunction in Systemic Hypertension and the Role of 24-Hour Blood Pressure** .....509  
Giuseppe Schillaci, Paolo Verdecchia, Gianpaolo Reboldi, Sergio Pede, and Carlo Porcellati

- Effects of Pravastatin on Left Ventricular Mass in Patients With Hyperlipidemia and Essential Hypertension** .....514  
Sheng-Fang Su, Chia-Ling Hsiao, Chia-Wei Chu, Bai-Ching Lee, and Tsung-Ming Lee

## CONGESTIVE HEART FAILURE

- Containment of Heart Failure Hospitalizations and Cost by Angiotensin-Converting Enzyme Inhibitor Dosage Optimization** .....519  
Aileen B. Luzier, Alan Forrest, Stephen G. Feuerstein, Jerome J. Schentag, and Joseph L. Izzo, Jr.

- Transcardiac Extraction of Circulating Endothelin-1 Across the Failing Heart** .....524  
Takayoshi Tsutamoto, Atsuyuki Wada, Keiko Maeda, Naoko Mabuchi, Masaru Hayashi, Takashi Tsutsui, Masato Ohnishi, Masahide Sawaki, Masanori Fujii, Takehiro Matsumoto, Hajime Horie, Yoshihisa Sugimoto, and Masahiko Kinoshita

## VALVULAR HEART DISEASE

- Predictors of Left Atrial Spontaneous Echo Contrast and Thrombi in Patients With Mitral Stenosis and Atrial Fibrillation** .....529  
Esteban González-Torrecilla, Miguel A. García-Fernández, Esther Pérez-David, Javier Bermejo, Mar Moreno, and Juan L. Delcán

- Prevalence and Diagnostic Value of Precordial Murmurs for Valvular Regurgitation in Obese Patients Treated With Dexfenfluramine** .....535  
Carlos A. Roldan, Edward A. Gill, and Bruce K. Shively

## CONGENITAL HEART DISEASE

- Evolution of Aortic Regurgitation Following Simple Patch Closure of Doubly Committed Subarterial Ventricular Septal Defect** .....540  
Hideshi Tomita, Yoshio Arakaki, Yasuo Ono, Osamu Yamada, Shinya Tsukano, Toshikatsu Yagihara, and Shigeyuki Echigo

## EDITORIALS

- Conclusions from the VA-HIT Study** .....543  
Hanna Bloomfield Rubins and Sander J. Robins

- Should the Split Format in the Third Position of the Pacemaker Code Be Resurrected?** .....545  
S. Serge Barold, Helen S. Barold, and Serge Cazeau

## BRIEF REPORTS

- High-Density Lipoprotein Cholesterol and Triglyceride Response With Simvastatin Versus Atorvastatin in Familial Hypercholesterolemia** .....547  
Anthony S. Wierzbicki, Peter J. Lumb, George Chik, and Martin A. Crook

- Effect of Probucol on Repeat Revascularization Rate After Percutaneous Transluminal Coronary Angioplasty (from the Probucol Angioplasty Restenosis Trial [PART])** .....550  
Hiroyuki Daida, Yoichi Kuwabara, Hisashi Yokoi, Hideo Nishikawa, Fumimaro Takatsu, Yasuro Nakata, Yasunori Kutsumi, Shigeru Oshima, Shinichiro Nishiyama, Sugao Ishiwata, Kenichi Kato, Shigeyuki Nishimura, Katsumi Miyauchi, Tatsuji Kanoh, Hiroshi Yamaguchi, and the PART Investigators

- Impact of Enoxaparin Low Molecular Weight Heparin in Patients With Q-Wave Myocardial Infarctions** .....553  
Marc Cohen, Elliott M. Antman, Enrique Gurfinkel, Alexander G.G. Turpie, John Furst, Frederique Bigonzi, and David Radley

- Association Between Heart Rate-Corrected QT Interval and Coronary Risk Factors in 2,894 Healthy Subjects (The DESIR Study)** .....557  
Laurent Fauchier, Pierre Maison-Blanche, Anne Forhan, Alain D'Hour, Patrick Lépinay, Jean Tichet, Sylviane Vol, Philippe Coumel, Jean Paul Fauchier, Beverley Balkau, and the DESIR Study Group

- Continuous Intravenous Diltiazem Infusion for Short-Term Ventricular Rate Control in Children** .....559  
Robert H. Pass, Leonardo Liberman, Majid Al-Fayadhi, Patrick Flynn, and Allan J. Hordof

- Holter Monitoring: Are Two Days Better Than One?** .....562  
Seth McClennen, Peter J. Zimetbaum, Kalon K.L. Ho, and Ary L. Goldberger

- Effect of Hypertension on Cardiac Mass and Radial Artery Wall Thickness** .....564  
Jean Jacques Mourad, Olivier Hanon, Xavier Girerd, Pierre Boutouyrie, and Michel E. Safar



**Usefulness of Left Atrial Size in Predicting Postoperative Symptomatic Improvement in Patients With Aortic Stenosis** .....567

Andrea Rossi, Marco Tomaino, Giorgio Golia, Francesco Santini, Samuele Pentiricci, Paolo Marino, and Piero Zardini

**Effects of Milrinone on Pulmonary Gas Exchange in Catecholamine-Dependent Heart Failure** .....570

Maria Koreny, Alexander Geppert, Michael Wutte, Georg Delle Karth, Gottfried Heinz, and Peter Siostrzonek

**Impact of Tissue Harmonic Imaging on the Assessment of Rheumatic Mitral Stenosis** .....573

David L. Prior, Wael A. Jaber, David A. Homa, James D. Thomas, and Ellen Mayer Sabik

**Mechanism of Pulmonary Vein Stenosis in Infants With Normally Connected Veins** .....577

Iran M. Sadr, Puay E. Tan, Mark W. Kieran, and Kathy J. Jenkins

**Six-Month Success of Intracoronary Stenting for Anomalous Coronary Arteries Associated With Myocardial Ischemia** .....580

Andrew J. Doorey, Michael J. Pasquale, James F. Lally, Gary S. Mintz, Erik Marshall, and David A. Ramos

**Comparison of Quinapril Versus Atenolol: Effects on Blood Pressure and Cardiac Mass After Renal Transplantation** .....583

Barbara Suwelack, Ulf Gerhardt, Martin Hausberg, Karl Heinz Rahn, and Helge Hohage

**Increased Plasma Homocysteine Is an Independent Predictor of New Atherothrombotic Brain Infarction in Older Persons** .....585

Wilbert S. Aronow, Chul Ahn, and Hal Gutstein

**Effect of Shaving the Chest of Hirsute Subjects on Transthoracic Impedance to Self-Adhesive Defibrillation Electrode Pads** .....587

Jeffrey W. Bissing and Richard E. Kerber

**Postmenopausal Smokers Show Reduced Hemodynamic Benefit from Oral Hormone Replacement** .....590

Susan S. Girdler, Alan L. Hinderliter, Sheila G. West, Karen Grewen, John Steege, and Kathleen C. Light

**READER'S COMMENT**

**Statins, High-Density Lipoprotein, and the Low-Density Lipoprotein/High-Density Lipoprotein Ratio** .....593

**SEPTEMBER 15, 2000, VOL. 86, NO. 6**

**CORONARY ARTERY DISEASE**

**Impact of Patient Characteristics, Complications, and Facility Volume on the Costs and Time of Cardiac Catheterization and Coronary Angioplasty in 70 Catheterization Laboratories** .....595

David J. Cohen, Edmund R. Becker, Steven D. Culler, Stephen Ellis, LuAnn M. Green, Robert N. Schnitzler, April W. Simon, and William S. Weintraub

**Usefulness of Impaired Chronotropic Response to Exercise as a Predictor of Mortality, Independent of the Severity of Coronary Artery Disease** .....602

Thomas J. Dresing, Eugene H. Blackstone, Fredric J. Pashkow, Claire E. Snader, Thomas H. Marwick, and Michael S. Lauer

**Can We Define Patients With No and Those With Some Chance of Survival When Found in Asystole Out of Hospital?** .....610

Johan Engdahl, Angela Bang, Jonny Lindqvist, and Johan Herlitz

**Ankle-Brachial Index as a Predictor of the Extent of Coronary Atherosclerosis and Cardiovascular Events in Patients With Coronary Artery Disease** .....615

Christos M. Papamichael, John P. Lekakis, Kimon S. Stamatiopoulos, Theodoros G. Papaioannou, Maria K. Alevizaki, Adriana T. Cimponeriu, John E. Kanakakis, Aggeliki Papapanagiotou, Anastasios Th. Kalafoutis, and Stamatios F. Stamatiopoulos

**Relation Between Coronary Atherosclerotic Plaque Burden and Cardiac Enzyme Elevation Following Percutaneous Coronary Intervention** .....619

Praveen K. Kanaparti and David L. Brown

**Long-Term Prognostic Value of Serial Troponin T Bedside Tests in Patients With Acute Coronary Syndromes** .....623

Ron T. van Domburg, Christa Cobbaert, Geert-Jan Kimman, Rainer Zerback, and Maarten L. Simoons

**T<sup>-786</sup>→C Mutation in the 5'-Flanking Region of the Endothelial Nitric Oxide Synthase Gene Is Associated With Myocardial Infarction, Especially Without Coronary Organic Stenosis** .....628

Masafumi Nakayama, Hirofumi Yasue, Michihiro Yoshimura, Yukio Shimasaki, Hisao Ogawa, Kiyotaka Kugiyama, Yuji Mizuno, Eisaku Harada, Shota Nakamura, Teruhiko Ito, Yoshihiko Saito, Yoshihiro Miyamoto, Yoshihiro Ogawa, and Kazuwa Nakao

**PREVENTIVE CARDIOLOGY**

**Rationale, Design, and Baseline Characteristics of a Trial of Prevention of Cardiovascular and Renal Disease With Fosinopril and Pravastatin in Nonhypertensive, Nonhypercholesterolemic Subjects With Microalbuminuria (The Prevention of Renal and Vascular Endstage Disease Intervention Trial [PREVEND IT])** .....635

Gilles F.H. Diercks, Wilbert M.T. Janssen, Ad J. van Boven, Annette A.A. Bak, Paul E. de Jong, Harry J.G.M. Crijns, and Wiek H. van Gilst, for the PREVEND IT Investigators

**ARRHYTHMIAS AND CONDUCTION DISTURBANCES**

**Mortality Following Radiofrequency Catheter Ablation (from the Pediatric Radiofrequency Ablation Registry)** .....639

Michael S. Schaffer, Robert M. Gow, Jeffrey P. Moak, J. Philip Saul, and Participating Members of the Pediatric Electrophysiology Society

## CONGESTIVE HEART FAILURE

- Underutilization and Clinical Benefits of Angiotensin-Converting Enzyme Inhibitors in Patients With Asymptomatic Left Ventricular Dysfunction** ..... 644  
Michael Kermani, Aashish Dua, and Alan H. Gradman

- Effects of Spironolactone on Heart Rate Variability and Left Ventricular Systolic Function in Severe Ischemic Heart Failure** ..... 649  
Mehmet Emin Korkmaz, Haldun Müderrisoğlu, Melek Uluçam, and Bülent Özün

- Usefulness of the Myocardial Performance Index for Assessing Right Ventricular Function in Congenital Heart Disease** ..... 654  
Benjamin W. Eidem, Patrick W. O'Leary, Chuwa Tei, and James B. Seward

- Effect of Left Ventricular Wall Mass on Doppler Filling Patterns in the Developing Normal Human Heart** ..... 659  
Kenji Harada, Akira Tsuda, Takahiro Shiota, Mary J. Rice, Masahiro Ishii, Robert W. McDonald, and David J. Sahn

## MISCELLANEOUS

- Meta-Analysis of 143 Reported Cases of Aortic Intramural Hematoma** ..... 664  
Rajiv Maraj, Pairoj Rerkpattanapipat, Larry E. Jacobs, Porawat Makornwattana, and Morris N. Kotler

## METHODS

- Efficacy and Safety of the Novel Ultrasound Contrast Agent Perflutren (Definity) in Patients With Suboptimal Baseline Left Ventricular Echocardiographic Images** ..... 669  
Dalane W. Kitzman, Martin E. Goldman, Linda D. Gillam, Jerald L. Cohen, Gerald P. Aurigemma, and John S. Gottdiener

## EDITORIAL

- Is There a Difference Between a Chief of Cardiology and a Chief of Medicine?** ..... 675  
Joseph S. Alpert

## BRIEF REPORTS

- Twenty-Year Follow-Up of Patients With New Postoperative Q Waves After Coronary Artery Bypass Grafting** ..... 677  
Andrea V. Brasch, Steven S. Khan, Timothy A. Denton, Michele A. DeRobertis, and Alfredo Trento

- Incidence, Management, and Outcome of Coronary Artery Perforation During Percutaneous Coronary Intervention** ..... 680  
Luis Gruberg, Ellen Pinnow, Roy Flood, Yvonne Bonnet, Mihaela Tebeica, Ron VVaksman, Lowell F. Satler, Augusto D. Pichard, Kenneth M. Kent, Martin B. Leon, and Joseph Lindsay, Jr.

- Common Polymorphism in the Promoter of the CD14 Monocyte Receptor Gene Is Associated With Acute Myocardial Infarction in Japanese Men** ..... 682  
Kazunori Shimada, Yoshiro Watanabe, Hiroshi Mokuno, Yoshitaka Iwama, Hiroyuki Daida, and Hiroshi Yamaguchi

- Positive Atrial Inotropic Effect of Dofetilide After Cardioversion of Atrial Fibrillation or Flutter** ..... 685  
Jeanne M. DeCara, Arthur Pollak, Simon Dubrey, and Rodney H. Falk

- Outcome of Patients With Sleep Apnea—Associated Severe Bradyarrhythmias After Continuous Positive Airway Pressure Therapy** ..... 688  
Wolfram Grimm, Ulrich Koehler, Ellen Fus, Jürgen Hoffmann, Volker Menz, Reinhard Funck, Jörg H. Peter, and Bernhard Maisch

- Influence of Age on Atrial Activation as Measured by the P-Wave Signal-Averaged Electrocardiogram** ..... 692  
Anvar A. Babaev, Margot E. Vloka, Rafal Sadurski, and Jonathan S. Steinberg

- Supernumerary Nipple as a Cutaneous Marker of Mitral Valve Prolapse in Asian Indians** ..... 695  
K. Rajaratnam, P. Dileep Kumar, and K.V. Sahasranam

- Coarctation Index: Identification of Recurrent Coarctation in Infants with Hypoplastic Left Heart Syndrome After the Norwood Procedure** ..... 697  
Matthew S. Lemler, Thomas M. Zellers, Katherine A. Harris, and Claudio Ramaciotti

- Global Left Ventricular Shape Is Not Altered as a Consequence of Physiologic Remodeling in Highly Trained Athletes** ..... 700  
Antonio Pelliccia, Erick Avelar, Stefano De Castro, and Natesa Pandian

- Influence of Age and Normal Plasma Fibrinogen Levels on Flow-Mediated Dilation in Healthy Adults** ..... 703  
Jason D. Allen, Joanie B. Wilson, Richard T. Tulley, Michael Lefevre, and Michael A. Welsch

- Practice Guidelines for Electron Beam Tomography: A Report of the Society of Atherosclerosis Imaging** ..... 705  
Harvey S. Hecht, for the Society of Atherosclerosis Imaging

- Clinical and Neurohormonal Correlates of Circulating Granulocyte-Macrophage Colony-Stimulating Factor in Severe Heart Failure Secondary to Ischemic or Idiopathic Dilated Cardiomyopathy** ..... 707  
John T. Parissis, Stamatis Adamopoulos, Koula F. Venetsanou, Dimitrios G. Mentzikof, Spiliot M. Karas, and Dimitrios Th. Kremastinos

## CASE REPORT

- Right-Sided Heart Failure Due to Right Ventricular Cavity Obliteration by Rheumatoid Nodules** ..... 711  
Amira Abbas and Benjamin F. Byrd III

## CORONARY ARTERY DISEASE

**Effects of Tirofiban Plus Heparin Versus Heparin Alone on Troponin I Levels in Patients With Acute Coronary Syndromes** .....713

James L. Januzzi, Samuel S. Hahn, Claudia U. Chae, Robert Giugliano, Kent Lewandrowski, Pierre Theroux, and Ik-Kyung Lang

**Prognostic Value of Plasma Levels of Secretory Type II Phospholipase A<sub>2</sub> in Patients With Unstable Angina Pectoris** .....718

Kiyotaka Kugiyama, Yasutaka Ota, Seigo Sugiyama, Hiroaki Kawano, Hideki Doi, Hirofumi Soejima, Shinzo Miyamoto, Hisao Ogawa, Keiji Takazoe, and Hirofumi Yasue

**Relation Among Exercise-Induced Ventricular Arrhythmias, Myocardial Ischemia, and Viability Late After Acute Myocardial Infarction** .....723

Abdou Elhendy, Fabiola B. Sozzi, Ron T. van Domburg, Jeroen J. Bax, Marcel L. Geleijnse, and Jos R.T.C. Roelandt

**Ten-Year Trends in the Incidence, Treatment, and Outcome of Q-Wave Myocardial Infarction** .....730

Harold L. Dauerman, Darleen Lessard, Jorge Yarzebski, Mark I. Furman, Joel M. Gore, and Robert J. Goldberg

**Noninvasive Assessment of Reperfusion After Fibrinolytic Therapy for Acute Myocardial Infarction** .....736

Ian B.A. Menown, James Allen, John McC. Anderson, and A.A. Jennifer Adgey

**Pravastatin Reduces Restenosis Two Years After Percutaneous Transluminal Coronary Angioplasty (REGRESS Trial)** .....742

Han J.G.H. Mulder, Egbert T. Bal, J. Wouter Jukema, Aeilko H. Zwinderman, Martin J. Schalij, Ad J. van Boven, and Albert V.G. Bruschke

**Costs of Revascularization Over Eight Years in the Randomized and Eligible Patients in the Emory Angioplasty Versus Surgery Trial (EAST)** .....747

William S. Weintraub, Edmund R. Becker, Patrick D. Mauldin, Steven Culler, Andrzej S. Kosinski, and Spencer B. King III

**Relation Between Vascular Morphologic Changes During Stent Implantation and the Magnitude of In-Stent Neointimal Hyperplasia** .....753

Jun Koyama, Mafumi Owa, Shumpei Sakurai, Hirohide Shimada, Hiroyuki Hikita, Takeo Higashikata, and Shuichi Ikeda

## PREVENTIVE CARDIOLOGY

**Efficacy and Safety of an Extended-Release Formulation of Fluvastatin for Once-Daily Treatment of Primary Hypercholesterolemia** .....759

Christie M. Ballantyne, James McKenney, and Bruce S. Trippe

## ARRHYTHMIAS AND CONDUCTION DISTURBANCES

**Role of Gender and Personality on Quality-of-Life Impairment in Intermittent Atrial Fibrillation** .....764

Miney Paquette, Denis Roy, Mario Talajic, David Newman, André Couturier, Connie Yang, and Paul Dorian

## METHODS

**Left Atrial Appendage Flow Velocities in Subjects With Normal Left Ventricular Function** .....769

Yoram Agmon, Bijoy K. Khandheria, Irene Meissner, Gary L. Schwartz, Tanya M. Petterson, W. Michael O'Fallon, Federico Gentile, Jack P. Whisnant, David O. Wiebers, Jody L. Covalt, and James B. Seward

## BRIEF REPORTS

**Effect of Simvastatin on Restenosis After Percutaneous Transluminal Angioplasty of Femoropopliteal Arterial Obstruction** .....774

Tjebbe Hagenars, Elma J. Gussenhoven, Marc R.H.M. van Sambeek, J. Wouter Jukema, Steven E. Kranendonk, and Nicolaas Bom

**Acute and Long-Term Results of Treatment of Diffuse In-Stent Restenosis in Aortocoronary Saphenous Vein Grafts** .....777

George Dangas, Roxana Mehran, Alexandra J. Lansky, Ron Waksman, Lowell F. Satler, Augusto D. Pichard, Kenneth M. Kent, Gary S. Mintz, Gregg W. Stone, and Martin B. Leon

**Safety of Femoral Closure Devices After Percutaneous Coronary Interventions in the Era of Glycoprotein IIb/IIIa Platelet Blockade** .....780

Fernando A. Cura, Samir R. Kapadia, Philippe L. L'Allier, Jakob P. Schneider, Mark S. Kreindel, Mitchell J. Silver, Jay S. Yadav, Conrad C. Simpfendorfer, Russel R. Raymond, E. Murat Tuzcu, Irving Franco, Patrick L. Whitlow, Eric J. Topol, and Stephen G. Ellis

**Certain Cardiac Risk Factors Predict Risk Factor Interventions and Influence Communication Between Physicians and Patients** .....783

Samia Mora, Randall S. Stafford, and Richard C. Pasternak

**Prognostic Usefulness of Dobutamine-Induced ST-Segment Elevation and T-Wave Normalization After Uncomplicated Acute Myocardial Infarction** .....786

Riccardo Rambaldi, Riccardo Bigi, Alessandro Desideri, Giampiero Curti, and Giuseppe Occhi

**In Vivo Uptake of Azithromycin in Human Coronary Plaques** .....789

Christian A. Schneider, Holger Diedrichs, Klaus-Dieter Riedel, Torsten Zimmermann, and Hans-Wilhelm Höpp

**Long-Term Outcomes of Minor Dissection at the Edge of Stents Detected With Intravascular Ultrasound** .....791

Myeong-Ki Hong, Seong-Wook Park, Nae-Hee Lee, Deuk-Young Nah, Cheol Whan Lee, Duk-Hyun Kang, Jae-Kwan Song, Jae-Joong Kim, and Seung-Jung Park

<b>Effect of Degree of Blood Pressure on the Hypercoagulable State in Chronic Atrial Fibrillation</b> .....	795
Foo Leong Li-Saw-Hee, Andrew D. Blann, and Gregory Y.H. Lip	

<b>Microalbuminuria Is Associated With Abnormal Thoracic Aortic Mechanics in Essential Hypertension</b> .....	797
Costas P. Tsioufis, Spyros G. Lambrou, Christodoulos I. Stefanadis, Dimitrios I. Antoniadis, Ioannis E. Kallikazaros, Christos E. Pitsavos, and Pavlos K. Toutouzas	

<b>Clinical Predictors of Prognosis in Severe Aortic Stenosis in Unoperated Patients <math>\geq 75</math> Years of Age</b> .....	801
Humberto Pierri, Amit Nussbacher, Luiz V. Décourt, Caio Medeiros, Alvaro Cattani, João B. Serro-Azul, Otavio Gebara, Antonio C.P. Barreto, Ligia B. Pinto, Mauricio Wajngarten, and José A.F. Ramires	

<b>Echocardiographic Predictors of Survival in Low Gradient Aortic Stenosis</b> .....	804
Rebecca L. Smith, Daniel Larsen, Michael H. Crawford, and Bruce K. Shively	

<b>Diagnostic Value of the Electrocardiogram in Suspected Pulmonary Embolism</b> .....	807
Marc Rodger, Dimitri Makropoulos, Michele Turek, Jean Quevillon, Francois Raymond, Pasteur Rasuli, and Philip S. Wells	

#### READERS' COMMENTS

<b>Effect of Statin Therapy on Restenosis After Coronary Stent Implantation</b> .....	810
<b>Phentermine's Effect on Serotonin in Plasma?</b> .....	810
<b>Dispersion in Electrocardiography Has Become Epidemic</b> .....	811
<b>Correction</b> .....	812

**OCTOBER 15, 2000, VOL. 86, NO. 8**

#### CORONARY ARTERY DISEASE

<b>Effect of Smoking on Lipid and Thrombogenic Factors Two Months After Acute Myocardial Infarction</b> .....	813
Stacy D. Fisher, Wojciech Zareba, Arthur J. Moss, Victor J. Marder, Charles E. Sparks, Judith Hochman, Chang-Seng Liang, and Ronald J. Krone, for the THROMBO Investigators	
<b>Association Between Electrocardiographic Abnormalities After Coronary Revascularization and Five-Year Cardiac Mortality in BARI Randomized and Registry Patients</b> .....	819
Yasuhiro Yokoyama, Bernard R. Chaitman, Regina H. Hardison, Ping Guo, Ronald Krone, Karen Stocke, Ihor Gussak, Michael J. Attubato, Pentti M. Rautaharju, George Sopko, and Katherine M. Detre	

<b>Safety and Efficacy of an Accelerated Dobutamine Stress Echocardiography Protocol in the Evaluation of Coronary Artery Disease</b> .....	825
Andrew J. Burger, Michael P. Notarianni, and Doron Aronson	

<b>Clinical and Electrocardiographic Variables Associated With Increased Risk of Ventricular Septal Defect in Acute Anterior Myocardial Infarction</b> .....	830
Yochai Birnbaum, Galen S. Wagner, Kathy B. Gates, Trevor D. Thompson, Gabriel I. Barbash, Robert J. Siegel, Christopher B. Granger, Michael C. Fishbein, Brian S. Crenshaw, and Robert M. Califf	

<b>Comparison of Platelet Activation in Unstable and Stable Angina Pectoris and Correlation With Coronary Angiographic Findings</b> .....	835
Elie Y. Chakhtoura, Fayez E. Shamooh, Jacob I. Haft, George R. Obiedzinski, Alice J. Cohen, and Rita M. Watson	

<b>Effect of Common Methylenetetrahydrofolate Reductase Gene Mutation on Coronary Artery Disease in Familial Hypercholesterolemia</b> .....	840
Masaki Kawashiri, Kouji Kajinami, Atsushi Nohara, Kunimasa Yagi, Akihiro Inazu, Junji Koizumi, and Hiroshi Mabuchi	

#### ARRHYTHMIAS AND CONDUCTION DISTURBANCES

<b>Location of Death (In-Hospital or Out-of-Hospital) and Type of Death (Arrhythmic, Nonarrhythmic, Noncardiac) After Inducible Sustained Ventricular Tachyarrhythmia After Syncope, Sustained Ventricular Tachycardia, or Nonfatal Cardiac Arrest (The ESVM Trial)</b> .....	846
Brian Olshansky, Vernon Hartz, Elizabeth Hahn, Jay Mason, M. Douglas Weaver, and the ESVM Investigators	

<b>Risk Factors for Thromboembolism in Patients With Paroxysmal Atrial Fibrillation</b> .....	855
Hiroshi Inoue and Hirotugu Atarashi, for the Research Group for Antiarrhythmic Drug Therapy	

#### CONGENITAL HEART DISEASE

<b>Comparison of Left Ventricular Outflow Tract Obstruction in Interruption of the Aortic Arch and in Coarctation of the Aorta, With Diagnostic, Developmental, and Surgical Implications</b> .....	856
Jacqueline Kreutzer and Richard Van Praagh	

#### CONGESTIVE HEART FAILURE

<b>Clinical Characteristics and Long-Term Outcomes With Heart Failure and Preserved Systolic Function</b> .....	863
Christopher M. O'Connor, Wendy A. Gattis, Linda Shaw, Michael S. Cuffe, and Robert M. Califf	

#### MISCELLANEOUS

<b>Evolution of Aortic Dissection After Surgical Repair</b> ....	868
Rossella Fattori, Letizia Bacchi Reggiani, Paola Bertaccini, Gabriella Napoli, Francesca Fusco, Massimo Longo, Angelo Pierangeli, and Giampaolo Gavelli	



## BRIEF REPORTS

### Effect of *Cisapride* on QT Interval in Patients With End-Stage Renal Disease ..... 873

Meri K. Scott, Mia A. Kim, Michael A. Kraus, Bruce A. Mueller, Ruchir A. Sehra, Gregory T. Alteriose, and Kevin M. Sowinski

### Implantable Cardioverter Defibrillator Therapy for Patients With Life-Threatening Ventricular Arrhythmias and Severe Heart Failure ..... 875

Andrew Mecca, Tawfik Barakat, Hongsheng Guo, and Brian Olshansky

### Onset Heart Rate and Microvolt T-Wave Alternans During Atrial Pacing ..... 877

Kaoru Tanno, Yoichi Kobayashi, Taro Adachi, Shynsyo Ryu, Taku Asano, Chiaki Obara, Takao Baba, and Takashi Katagiri

### Comparison of QT Intervals in African-Americans Versus Caucasians ..... 880

Elena B. Sgarbossa, Sergio L. Pinski, Deborah Williams, Biljana Pavlovic-Surjancev, Janice Tang, and Richard G. Trohman

### Effects of Systemic Hypertension on Arterial Dynamics and Left Ventricular Compliance in Patients $\geq 70$ Years of Age ..... 882

Alberto Pierini, Giovanni Bertinieri, Giovanni Pagnozzi, Michele Randazzo, Gabriella Gazzano, Simona Rossi, Guido Grassi, and Giuseppe Mancina

### Meta-Analysis of Effect of Beta-Blocker Therapy on Mortality in Patients With New York Heart Association Class IV Chronic Congestive Heart Failure ..... 886

Sarah L. Whorlow and Henry Krum

### Use of the Thrombolysis In Myocardial Infarction Frame Count for the Quantitative Assessment of Transplant-Associated Arteriosclerosis ..... 890

James C. Fang, Scott Kinlay, Paul Wexberg, Ali Amirzadeh, C. Michael Gibson, Andrew P. Selwyn, and Peter Ganz

### Effects of Estrogen and the Selective Estrogen Receptor Modulator Raloxifene on Markers of Inflammation in Postmenopausal Women ..... 892

Annon Blum, William H. Schenke, Londa Hathaway, Rita Mincemoyer, Gyorgy Csako, Myron A. Wacławiw, and Richard O. Cannon III

## READERS' COMMENTS

### Factor VIIa as a Predictor of Cardiac Events Following Myocardial Infarction in Women ..... 896

## OCTOBER 16, 2000, VOL. 86, NO. 8A

### Twelfth Annual Symposium: Transcatheter Cardiovascular Therapeutics—Abstracts

## OCTOBER 19, 2000, VOL. 86, NO. 8B

### A Symposium: New Directions in the Understanding and Management of Acute Coronary Syndromes

## NOVEMBER 1, 2000, VOL. 86, NO. 9

## CORONARY ARTERY DISEASE

### Diabetes Mellitus, Impaired Fasting Glucose, Atherosclerotic Risk Factors, and Prevalence of Coronary Heart Disease ..... 897

Charles M. Alexander, Pamela B. Landsman, and Steven M. Teutsch

### Prognostic Significance of Mild Mitral Regurgitation by Color Doppler Echocardiography in Acute Myocardial Infarction ..... 903

Micha S. Feinberg, Ehud Schwammenthal, Lev Shlizerman, Avital Porter, Hanoch Had, Dov Freimark, Shlomi Matesky, Valentina Boyko, Lori Mandelzweig, Zvi Vered, Solomon Behar, and Alex Sagie

### Clinical Trials of Unfractionated Heparin and Low-Molecular-Weight Heparin in Addition to Aspirin for the Treatment of Unstable Angina Pectoris: Do the Results Apply to All Patients? ..... 908

Craig R. Walsh, Donald M. Lloyd-Jones, Carlos A. Camargo, Jr., Robert P. Giugliano, and Christopher J. O'Donnell

### Sites of Interleukin-6 Release in Patients With Acute Coronary Syndromes and in Patients With Congestive Heart Failure ..... 913

Efthymios N. Deliargyris, Ronald J. Raymond, Theoharis C. Theoharides, William S. Boucher, David A. Tate, and Gregory J. Dehmer

### Transthoracic Doppler Echocardiographic Comparison of Left Internal Mammary Grafts to Left Anterior Descending Coronary Artery With Ungrafted Right Internal Mammary Arteries in Patients With and Without Myocardial Ischemia by Dobutamine Stress Echocardiography ..... 919

Adelaide M. Arruda, Patricia A. Pellikka, Douglas W. Mahoney, Anthony Joseph, Jr., Wilson Mathias, Jr., and James B. Seward

### Assessing a Strategy of Initial Stand-Alone Extracatheter Atherectomy Followed by Staged Stent Placement in Degenerated Saphenous Vein Graft Lesions ..... 923

Javed M. Ahmed, Mun K. Hong, Roxana Mehran, Augusto D. Pichard, Lowell F. Satler, Kenneth M. Kent, Gary S. Mintz, Hongsheng Wu, and Martin B. Leon

### Long-Term Follow-Up After Coronary Stenting and Intravascular Red Laser Therapy ..... 927

Ivan De Scheerder, Kai Wang, Victor Nikolaychik, Upendra Kaul, Balbir Singh, Harry Sahota, Michael H. Keelan, and Nicholas Kipshidze

- Comparison of Percutaneous Interventions for Unstable Angina Pectoris in Patients With and Without Previous Coronary Artery Bypass Grafting** ..... 931  
Verghese Mathew, Peter B. Berger, Ryan J. Lennon, Bernard J. Gersh, and David R. Holmes, Jr.

- Relation Between Coronary Artery Disease, Baseline Clinical Variables, Revascularization Mode, and Mortality** ..... 938  
Arvinder S. Kurbaan, Anthony F. Rickards, Charles D.J. Isley, Rodney A. Foale, Ulrich Sigwart, and Timothy J. Bowker, on behalf of the CABRI Participants

## PREVENTIVE CARDIOLOGY—REVIEW

- Evidence That Triglycerides Are an Independent Coronary Heart Disease Risk Factor** ..... 943  
Paul Cullen

## ARRHYTHMIAS AND CONDUCTION DISTURBANCES

- Comparison of Intravenous *Flecainide*, *Propafenone*, and *Amiodarone* for Conversion of Acute Atrial Fibrillation to Sinus Rhythm** ..... 950  
Francisco Javier Martínez-Marcos, Jose Luis García-Garmendia, Antonio Ortega-Carpio, Juan Manuel Fernández-Gómez, Jose María Santos, and Crescencio Camacho

- Relation of Autonomic Modulation to Recurrence of Atrial Fibrillation Following Cardioversion** ..... 954  
Emmanuel M. Kanoupakis, Emmanuel G. Manios, Hercules E. Mavrikakis, Michail D. Kaleboubas, Fragiskos I. Parthenakis, and Panos E. Vardas

- Heart Rate Variability Patterns Before Ventricular Tachycardia Onset in Patients With an Implantable Cardioverter Defibrillator** ..... 959  
Federico Lombardi, Alberto Porta, Maurizio Marzegalli, Stefano Favale, Massimo Santini, Antonello Vincenti, Angelo De Rosa, and the Participating Investigators of ICD-HRV Italian Study Group

## CONGENITAL HEART DISEASE

- Two-Dimensional Echocardiographic Assessment of Right Ventricular Function as a Predictor of Outcome in Hypoplastic Left Heart Syndrome** ..... 964  
Karen Altmann, Beth F. Printz, David E. Solowiejczyk, Welton M. Gersony, Jan Quaegebeur, and Howard D. Apfel

- Location of Acutely Successful Radiofrequency Catheter Ablation of Intraatrial Reentrant Tachycardia in Patients With Congenital Heart Disease** ..... 969  
Kathryn K. Collins, Barry A. Love, Edward P. Walsh, J. Philip Saul, Michael R. Epstein, and John K. Triedman

## CARDIOMYOPATHY

- Relation of Regional Sympathetic Denervation and Myocardial Perfusion Disturbance to Wall Motion Impairment in Chagas' Cardiomyopathy** ..... 975

Marcus Vinicius Simões, Antonio Osvaldo Pintya, Guilherme Bromberg-Marin, Álvaro Valentin Sarabanda, Cleide Marques Antloga, Antonio Pazin-Filho, Benedito Carlos Maciel, and José Antonio Marin-Neto

## VALVULAR HEART DISEASE

- Hemodynamic Performance During Maximum Exercise in Adult Patients With the Ross Operation and Comparison With Normal Controls and Patients With Aortic Bioprostheses** ..... 982  
Philippe Piabrot, Jean G. Dumesnil, Martin Briand, Isabelle Laforest, and Paul Cartier

## INTERVIEW

- HARVEY STANLEY HECHT, MD: A Conversation With the Editor** ..... 989  
William C. Roberts

## BRIEF REPORTS

- Comparison of In-Hospital Outcomes After Coronary Angioplasty With or Without Stent Placement for Acute Myocardial Infarction** ..... 998  
Babak A. Vakili and David L. Brown

- Meta-Analysis of the Association of Platelet Glycoprotein IIIa PLAT/A2 Polymorphism With Myocardial Infarction** ..... 1000  
Michael M. Zhu, Jeremy Weedon, and Luther T. Clark

- Homocysteine, a Risk Factor for Coronary Artery Disease or Not? A Meta-Analysis** ..... 1005  
Ton J. Cleophas, Niels Hornstra, Bart van Hoogstraten, and Jan van der Meulen

- Comparison of Modes of Death and Cardiac Necropsy Findings in Fatal Acute Myocardial Infarction in Men and Women >75 Years of Age** ..... 1010  
Jamshid Shirani, Jamshid Alaeddini, and William C. Roberts

- Use of Fractional Myocardial Flow Reserve to Assess the Functional Significance of Intermediate Coronary Stenoses** ..... 1013  
William F. Fearon, Atsushi Takagi, Allen Jeremias, Alan C. Yeung, James D. Joye, David J. Cohen, Tony M. Chou, Morton J. Kern, and Paul G. Yock

- Serial Intravascular Ultrasound and Quantitative Coronary Angiography After Self-Expandable Wallstent Coronary Artery Implantation** ..... 1015  
Andreas König, Volker Klauss, Evelyn Regar, Johannes Rieber, Gianni Casella, Karl Theisen, and Harald Mudra

- Causes of Early Reintervention After Successful Coronary Artery Stenting** ..... 1018  
Abid R. Assali, Stefano Sdringola, Mohammad Ghani, Ali Moustapha, H. Vernon Anderson, George Schroth, Ken Fujise, Richard W. Smalling, and Oscar Rosales

**Effect of Off-Pump Coronary Artery Bypass Grafting on Morbidity** ..... 1021

Fritz J. Baumgartner, Taro Yokoyama, Ali Gheissari, Eli R. Capouya, George P. Panagiotides, and Richard J. DeClusin

**Time Course of Recovery of Left Atrial Mechanical Dysfunction After Cardioversion of Spontaneous Atrial Fibrillation With the Implantable Atrial Defibrillator** ..... 1023

Hung-Fat Tse, Qiong Wang, Cheuk-Man Yu, Gregory M. Ayers, and Chu-Pak Lau

**Left Ventricular Diastolic Dysfunction in Lone Atrial Fibrillation Determined by Doppler Tissue Imaging of Mitral Annular Motion** ..... 1026

Maran Thamilarasan, Richard A. Grimm, L. Leonardo Rodriguez, Jing-Ping Sun, Jill A. Odabashian, Deborah A. Agler, Annitta Morehead, Mina K. Chung, Allan L. Klein, and James D. Thomas

**Comparison of Effectiveness of an 8-mm Versus a 4-mm Tip Electrode Catheter for Radiofrequency Ablation of Typical Atrial Flutter** ..... 1029

Atsunobu Kasai, Frédéric Anselme, Wee Siong Teo, Alain Cribrier, and Nadir Saoudi

**Effect of Concomitant Digoxin and Carvedilol Therapy on Mortality and Morbidity in Patients With Chronic Heart Failure** ..... 1032

Eric J. Eichhorn, Mary Ann Lukas, Ball Wu, and Neil Shusterman

**Plasma Levels of A- and B-type Natriuretic Peptides in Patients With Hypertrophic Cardiomyopathy or Idiopathic Dilated Cardiomyopathy** ..... 1036

Yuji Mizuno, Michihiro Yoshimura, Eisaku Harada, Masafumi Nakayama, Tomohiro Sakamoto, Yukio Shimasaki, Hisao Ogawa, Kiyotaka Kugiyama, Yoshihiko Saito, Kazuwa Nakao, and Hirofumi Yasue

**Left Ventricular Mass and Systolic Function in Human Immunodeficiency Virus-Infected Patients After Weight Loss** ..... 1040

Ernesto Umana, Hercules Panayiotou, Keith A. Ramsey, Mahesh Bikkina, Clara V. Massey, and Martin A. Alpert

**Predictors of Left Ventricular Outflow Obstruction Following Single-Stage Repair of Interrupted Aortic Arch and Ventricular Septal Defect** ..... 1044

Morris M. Salem, Vaughn A. Starnes, Winfield J. Wells, Ruben J. Acherman, Ruey-Kang R. Chang, Giovanni B. Luciani, and Pierre C. Wong

**Comparison of Mechanical Properties of the Left Ventricle in Patients With Severe Coronary Artery Disease by Nonfluoroscopic Mapping Versus Two-Dimensional Echocardiograms** ..... 1047

Glenn Van Langenhove, Jaap N. Hamburger, Jos R.T.C. Roelandt, Peter C. Smits, Emile Onderwater, Mariano Albertal, Alex J. Wardeh, A.H. Marco Knook, and Patrick W. Serruys

**CASE REPORT**

**Successful Use of a Biphasic Waveform Automated External Defibrillator in a High-Risk Child** ..... 1051

Christina A. Gurnett and Dianne L. Atkins

**READERS' COMMENTS**

**ST-Segment Elevation in Patients With Cocaine Abuse and Chest Pain: Is There a Pattern?** ..... 1054

**Seek and Thou Shalt Find: Bacterial Lipopolysaccharide as a Possible Link Between Increased CD14 Expression, High CRP, and Low HDL** ..... 1054

**Orlistat Use and the Body Mass Index** ..... 1055

**Electrographic Patterns of the Brugada Syndrome in Right Ventricular Infarction/Ischemia** ..... 1056

---

**NOVEMBER 2, 2000, VOL. 86, NO. 9A**

**A Symposium: Converging Electrical Therapies for the Heart**

---

**NOVEMBER 15, 2000, VOL. 86, NO. 10**

**CORONARY ARTERY DISEASE**

**Comparison of Activation Process of Platelets and Neutrophils After Coronary Stent Implantation Versus Balloon Angioplasty for Stable Angina Pectoris** ..... 1057

Teruo Inoue, Ryoichi Sohma, Toshiyasu Miyazaki, Yoichi Iwasaki, Isao Yaguchi, and Shigenori Morooka

**Effect of Abciximab on Late Adverse Events in Patients With Diabetes Mellitus Undergoing Stent Implantation** ..... 1063

James L. Velianou, Verghese Mathew, Stephanie H. Wilson, Gregory W. Barsness, Diane E. Grill, and David R. Holmes Jr.

**Longitudinal Plaque Redistribution During Stent Expansion** ..... 1069

Akiko Maehara, Atsushi Takagi, Hiroyuki Okura, Ali H.M. Hassan, Heidi N. Bonneau, Yasuhiro Honda, Paul G. Yock, and Peter J. Fitzgerald

**The PARAGON Stent Study: A Randomized Trial of a New Martensitic Nitinol Stent Versus the Palmaz-Schatz Stent for Treatment of Complex Native Coronary Arterial Lesions** ..... 1073

David R. Holmes, Jr., Alexandra Lansky, Richard Kuntz, Malcolm R. Bell, Maurice Buchbinder, Richard Fortuna, Charles D. O'Shaughnessy, and Jeffrey Popma, for the PARAGON Investigators

**Angiographic Severity and Extent of Coronary Artery Disease in Patients With Type 1 Diabetes Mellitus ... 1080**

Pia Pajunen, Marja-Riitta Taskinen, Markku S. Nieminen, and Mikko Syväne

**Hostility, Social Support, and Carotid Artery Atherosclerosis in The National Heart, Lung, and Blood Institute Family Heart Study ... 1086**

Sarah S. Knox, Avril Adelman, R. Curtis Ellison, Donna K. Arnett, Kimberly Siegmund, Gerdi Weidner, and Michael A. Province

**CONGESTIVE HEART FAILURE**

**Congestive Heart Failure Despite Normal Left Ventricular Systolic Function in a Population-Based Sample: The Strong Heart Study ... 1090**

Richard B. Devereux, Mary J. Roman, Jennifer E. Liu, Thomas K. Welty, Elisa T. Lee, Richard Rodeheffer, Richard R. Fabsitz, and Barbara V. Howard

**VALVULAR HEART DISEASE**

**Prediction of Thrombus-Related Mechanical Prosthetic Valve Dysfunction Using Transesophageal Echocardiography ... 1097**

Steve S. Lin, Irving Y.H. Tiong, Craig R. Asher, Mark T. Murphy, James D. Thomas, and Brian P. Griffin

**Relation of Nonobstructive Aortic Valve Calcium to Carotid Arterial Atherosclerosis ... 1102**

Yehuda Adler, Uriel Levinger, Arnon Koren, David Tanne, Noam Fink, Mordehay Vaturi, Zaza Iakobishvili, Alexander Battler, Avigdor Zelikovski, and Alex Sagie

**CONGENITAL HEART DISEASE**

**Quantitative Assessment of Ventricular Function in Children With Single Ventricles Using the Doppler Myocardial Performance Index ... 1106**

Richard V. Williams, Saskia Ritter, Lloyd Y. Tani, Luciana T. Pagotto, and L. LuAnn Minich

**Mode of Death in Adults With Congenital Heart Disease ... 1111**

Erwin N. Oechslin, David A. Harrison, Michael S. Connelly, Gary D. Webb, and Samuel C. Siu

**MISCELLANEOUS**

**Relation of Systemic Blood Pressure, Left Ventricular Mass, Insulin Sensitivity, and Coronary Artery Disease to QT Interval Duration in Nondiabetic and Type 2 Diabetic Subjects ... 1117**

Andreas Festa, Ralph D'Agostino Jr., Pentti Rautaharju, Leena Mykkanen, and Steven M. Haffner

**CARDIOVASCULAR PHARMACOLOGY**

**Development of Tachyphylaxis Among Patients Taking HMG CoA Reductase Inhibitors ... 1123**

William C. Cromwell and Paul E. Ziajka

**BRIEF REPORTS**

**Effect of Preoperative Statin Therapy and Cardiac Outcomes After Coronary Artery Bypass Grafting ... 1128**

M. Imran Dotani, D. Michael Elnicki, Abnash C. Jain, and C. Michael Gibson

**Similar Late Revascularization Rates 10 to 12 Years After Angioplasty or Bypass Surgery for Multivessel Coronary Artery Disease: A Report from the Lady Davis Carmel Medical Center (LDCMC) Registry ... 1131**

David A. Halon, Moshe Y. Flugelman, Amnon Merdler, Hedy S. Renner, Giora Weisz, Johnny Shahla, and Basil S. Lewis

**Five-Year Prospective Study of the Effects of Anxiety and Depression in Patients With Coronary Artery Disease ... 1135**

Mark D. Sullivan, Andrea Z. LaCroix, John A. Spertus, and Julia Hecht

**Comparison of Hemodynamic Effects of Enhanced External Counterpulsation and Intra-Aortic Balloon Pumping in Patients With Acute Myocardial Infarction ... 1139**

Isao Taguchi, Kenichi Ogawa, Akitugu Oida, Shichiro Abe, Noboru Kaneko, and Hideaki Sakio

**Prevalence of Coronary Artery Disease, Complex Ventricular Arrhythmias, and Silent Myocardial Ischemia and Incidence of New Coronary Events in Older Persons With Chronic Renal Insufficiency and With Normal Renal Function ... 1142**

Wilbert S. Aronow, Chul Ahn, Anthony D. Mercado, and Stanley Epstein

**Effect of Heterozygosity for the Methionine Synthase 2756 A→G Mutation on the Risk for Recurrent Cardiovascular Events ... 1144**

M. Eric Hyndman, Peter J. Bridge, J. Wayne Warnica, Gordon Fick, and Howard G. Parsons

**Effect of Implantable Cardioverter-Defibrillator Shocks on QT Dispersion ... 1146**

Osnat Gurevitz, Elad Yaacoby, Eran Segal, Azriel Perel, Michael Eldar, Elieser Kaplinsky, and Michael Glikson

**Histologic Comparison of Allograft Myocardium Between Short- and Long-Term Survivors of Human Cardiac Transplantation ... 1148**

Arthur T. Armstrong, Philip F. Binkley, Peter B. Baker, and Carl V. Leier

**Effect of Angiotensin-Converting Enzyme Inhibitor Therapy on 30-Day Outcome in Patients ≥65 Years of Age With Chronic Congestive Heart Failure ... 1151**

Carla A. Sueti, Anna Schenck, Mridul Chowdhury, Randa Hall, and Ross J. Simpson, Jr.

**Circadian Rhythm of Serum Total Homocysteine in Men ... 1153**



W. Fraser Bremner, Earl W. Holmes, Eugene L. Kanabrocki, Ramon C. Hermida, Diana Ayala, Jean Garbinicius, Jane L.H.C. Third, May D. Ryan, Margaret Johnson, Sharon Foley, Parvez Shirazi, Bernard A. Nemchausky, and Lawrence E. Scheving

- Frequency, Risk Factors, and Clinical Outcomes of Left Ventricular Assist Device-Associated Ventricular Thrombus** ..... 1156  
Muredach P. Reilly, Susan E. Wiegers, Andrew J. Cucchiara, Mary Lou O'Hara, Theodore J. Plappert, Evan Loh, Michael A. Acker, and Martin St. John Sutton

## CASE REPORT

- Low-Density Lipoprotein Apheresis Therapy During Pregnancy** ..... 1160  
Linda Cashin-Hemphill, Margaret Noone, Jodi F. Abbott, Carol A. Waksmonski, and Robert S. Lees

DECEMBER 1, 2000, VOL. 86, NO. 11

## CORONARY ARTERY DISEASE

- Usefulness of Brachial Artery Reactivity to Isometric Handgrip Exercise in Identifying Patients at Risk and With Coronary Artery Disease** ..... 1161  
Melvyn Rubenfire, Ning Cao, Dean E. Smith, and Lori Mosca

- Early and Long-Term Results of Stenting of Diffuse Coronary Artery Disease** ..... 1166  
Germano Di Sciascio, Giuseppe Patti, Giuseppe Nasso, Alessandro Manzoli, Andrea D'Ambrosio, and Antonio Abbate

- Identification of Severe and Extensive Coronary Artery Disease by Postexercise Regional Wall Motion Abnormalities in Tc-99m Sestamibi Gated Single-Photon Emission Computed Tomography** ..... 1171  
Tali Sharir, Claudia Bacher-Stier, Sanjay Dhar, Howard C. Lewin, Romalisa Miranda, John D. Friedman, Guido Germano, and Daniel S. Berman

## PREVENTIVE CARDIOLOGY

- Effect of Lovastatin on Cardiovascular Resource Utilization and Costs in the Air Force/Texas Coronary Atherosclerosis Prevention Study (AFCAPS/TexCAPS)** ..... 1176  
Antonio M. Gotto, Jr., Stephen J. Boccuzzi, John R. Cook, Charles M. Alexander, James B. Roehm, Gregg S. Meyer, Michael Clearfield, Stephen Weis, and Edwin Whitney, for the AFCAPS/TexCAPS Research Group

## SYSTEMIC HYPERTENSION

- Comparison of Efficacy and Side Effects of Combination Therapy of Angiotensin-Converting Enzyme Inhibitor (Benazepril) With Calcium Antagonist (Either Nifedipine or Amlodipine) Versus High-Dose Calcium Antagonist Monotherapy for Systemic Hypertension** ..... 1182  
Franz H. Messerli, Suzanne Oparil, and Zhanbin Feng

- Inhibition of Platelet Aggregability by Losartan in Essential Hypertension** ..... 1188  
Pavel J. Levy, Carla Yunis, John Owen, K. Bridget Brosnihan, Ronald Smith, and Carlos M. Ferrario

## VALVULAR HEART DISEASE

- Relation of Systemic Sympathetic Nervous System Activation and Echocardiographic Left Ventricular Size and Performance and Its Implications in Patients With Mitral Regurgitation** ..... 1193  
Rajendra H. Mehta, Mark A. Supiano, Hakan Oral, P. Michael Grossman, Janet A. Petrusha, Daniel S. Montgomery, Kerri A. Briesmiester, Marla J. Smith, and Mark R. Starling

## CONGENITAL HEART DISEASE

- Pathogenesis of the Glomerular Abnormality in Cyanotic Congenital Heart Disease** ..... 1198  
Joseph K. Perloff, Harrison Latta, and Paola Barsotti

- Frequency of Restenosis After Balloon Pulmonary Arterioplasty and Its Causes** ..... 1205  
David M. Bush, Timothy M. Hoffman, Jonas Del Rosario, Herbert Eriksson, and Jonathan J. Rome

## EDITORIALS

- Importance of Asking Questions About Erectile Dysfunction** ..... 1210  
Laurence A. Levine and Robert A. Kloner

- Prophylactic Implantable Cardioverter Defibrillator Trials: MUSTT, MADIT, and Beyond** ..... 1214  
Eric N. Prystowsky and Seah Nisam

## INTERVIEW

- MYRVIN HAROLD ELLESTAD, MD: A Conversation With the Editor** ..... 1216  
William C. Roberts

## BRIEF REPORTS

- Comparison of a 60- Versus 90-Minute Determination of ST-Segment Resolution After Thrombolytic Therapy for Acute Myocardial Infarction** ..... 1235  
James A. de Lemos, Elliott M. Antman, Robert P. Giugliano, David A. Morrow, Carolyn H. McCabe, Sally S. Cutler, Andrew Charlesworth, Rolf Schröder, and Eugene Braunwald, for the INTIME-II Investigators

- Importance of Accounting for the Variability of Electrocardiographic Data Among Diagnostically Similar Patients With Inferior Wall Healed Myocardial Infarction** ..... 1238

Robert A. Warner, Arielle L. Olicker, W.K. Haisty, Norma E. Hill, Ronald H. Selvester, and Galen S. Wagner

**Effect of Angiotensin-Converting Enzyme Inhibitor on Cardiopulmonary Baroreflex Sensitivity in Patients With Acute Myocardial Infarction** ..... 1241

Makoto Hikosaka, Fumio Yuasa, Reisuke Yuyama, Masayuki Motohiro, Jun Mimura, Akihiro Kawamura, Tsutomu Sumimoto, Tetsuro Sugiura, and Toshiiji Iwasaka

**Factors Associated With Preventable Out-of-Hospital Nontraumatic Cardiac Arrest** ..... 1244

Takayuki Fujita, Kazuo Kimura, Toshiyuki Ishikawa, Masami Kosuge, Makoto Shimizu, Mitsugi Sugiyama, Osamu Tochikubo, and Satoshi Umemura

**Usefulness of Pharmacologic Stress Echocardiography in a Chest Pain Center** ..... 1247

Andrés Orlandini, Enrique Tuero, Ernesto Paolasso, Oscar Gómez Vilamajó, and Rafael Díaz

**Lipid Treatment Goals Achieved in Patients Treated With Statin Drugs in Norwegian General Practice** ..... 1250

Arne Svilaas, Knut Risberg, Magne Thoresen, and Leiv Ose

**Detection of a Group of Risk Factors in Coronary Disease Using a New Carriership Analysis Approach** ..... 1253

Luc F. Miller Watelet, Arthur J. Moss, Wojciech Zareba, David Oakes, and Daniel Ryan

**Improvement in Endothelium-Dependent Brachial Artery Flow-Mediated Vasodilation With Low-Density Lipoprotein Cholesterol Levels < 100 mg/dl** ..... 1256

Michael Shechter, Michael Sharir, Maura J. Paul Labrador, James Forrester, and C. Noel Bairey Merz

**Lack of Association of Exercise Testing With Coronary Stent Closure** ..... 1259

Gary L. Pierce, Christos Seferlis, James Kirshenbaum, and L. Howard Hartley

**Effect of Left Ventricular Volume on Results of Coronary Artery Bypass Grafting** ..... 1261

Richard W. Kim, Baran S. Ugurlu, Denis A. Tereb, Frans J. Th. Wackers, George Tellides, and John A. Elefteriades

**Interobserver Reproducibility of Heart Rate Variability in Children (The Bogalusa Heart Study)** ..... 1264

Lynn A. Batten, Elaine M. Urbina, and Gerald S. Berenson

**Effects of Left Ventricular Pacing on Cardiac Performance and on Quality of Life in Patients With Drug Refractory Heart Failure** ..... 1267

Gabriele Lupi, Michele Brignole, Daniele Oddone, Roberto Bollini, Carlo Menozzi, and Nicola Bottoni

**Intravenous Magnesium Sulfate for Acute Termination of Sustained Monomorphic Ventricular Tachycardia Associated With Coronary Artery Disease** ..... 1270

H.M. Omar Farouque, Prashanthan Sanders, and Glenn D. Young

**Outcome in Infants With Pulmonary Atresia, Intact Ventricular Septum, and Right Ventricle-Dependent Coronary Circulation** ..... 1272

Andrew J. Powell, John E. Mayer, Peter Lang, and James E. Lock

**Impact of Low Body Weight on Frequency of Pediatric Cardiac Catheterization Complications** ..... 1275

John F. Rhodes, Jeremy D. Asnes, Andrew D. Blaufox, and Robert J. Sommer

**Sequential Evaluation of Left Ventricular Myocardial Performance in Children After Anthracycline Therapy** ..... 1279

Masahiro Ishii, Takahiro Tsutsumi, Wakako Himeno, Genjyu Eto, Jun Furui, Kanako Hashino, Yoko Sugahara, Hiromi Muta, Teiji Akagi, Akikazu Ando, Haruhiko Eguchi, and Hirohisa Kato

**Incidence and Clinical Significance of Bacteremia and Sepsis Among Cardiac Patients Treated With Intra-Aortic Balloon Counterpulsation Pump** ..... 1281

Eugene Crystal, Abraham Borer, Jacob Gilad, Irena Haick, Gabriel Weber, Michael Alkan, Klaris Riesenberger, Francisc Schläeffer, Alexander Battler, Reuben Ilia, H. Gilutz, and Johnathan Leor

**Comparison of Transthoracic Echocardiography With Second Harmonic Imaging With Transesophageal Echocardiography in the Detection of Right to Left Shunts** ..... 1284

Guy Van Camp, Philippe Franken, Patrik Melis, Bernard Cosyns, Danny Schoors, and Jean Louis Vanoverschelde

# **CASE REPORT**

**Pheochromocytoma of the Heart** ..... 1288

Thomas G. Pickering, O. Wayne Isom, Geoffrey W. Bergman, and Jennie M. Barbieri

# **READERS' COMMENTS**

**Richard J. Bing, Charles A. Lindbergh, and Cardiopulmonary Bypass** ..... 1290

**Local Chemotherapy for Neoplastic Pericardial Effusion** ..... 1292

**DECEMBER 15, 2000, VOL. 86, NO. 12**

# **CORONARY ARTERY DISEASE**

**Beneficial Effects of Pravastatin ( $\pm$  Colestyramine/Niacin) Initiated Immediately After a Coronary Event (The Randomized Lipid-Coronary Artery Disease [L-CAD] Study)** ..... 1293

Hans-Richard Arntz, Rahul Agrawal, Werner Wunderlich, Luise Schnitzer, Richard Stern, Frank Fischer, and Heinz-Peter Schultheiss

**Comparison of Gated Single-Photon Emission Computed Tomography With Magnetic Resonance Imaging for Evaluation of Left Ventricular Function in Ischemic Cardiomyopathy** ..... 1299

Jeroen J. Bax, Hildo Lamb, Petra Dibbets, Harold Pelikan, Eric Boersma, Eric P. Viergever, Guido Germano, Hubert W. Vliegen, Albert de Roos, Ernest K.J. Pauwels, and Ernst E. Van der Wall

**Coronary Calcium and Anti-Cardiolipin Antibody Are Elevated in Patients With Typical Chest Pain** ..... 1306

Yaniv Sherer, Joseph Shemesh, Alexander Tenenbaum, Miri Blank, Dror Harats, Enrique Z. Fisman, Sonja Propotnik, Michael Motro, and Yehuda Shoenfeld

**Usefulness of QT Dispersion Immediately After Exercise as an Indicator of Coronary Stenosis Independent of Gender or Exercise-Induced ST-Segment Depression** ..... 1312

Yasushi Koide, Masayuki Yotsukura, Hideaki Yoshino, and Kyoza Ishikawa

**Effect of Preintervention Plaque Burden on Subsequent Intimal Hyperplasia in Stented Coronary Artery Lesions** ..... 1318

Avinoam Shiran, Neil J. Weissman, Borjanca Leiboff, Kenneth M. Kent, Augusto Pichard, Lowell F. Satler, Hongsheng Wu, Martin B. Leon, and Gary S. Mintz

**Comparison of Medicine Alone, Coronary Angioplasty, and Left Internal Mammary Artery-Coronary Artery Bypass for One-Vessel Proximal Left Anterior Descending Coronary Artery Disease** ..... 1322

Adam B. Greenbaum, Robert M. Califf, Robert H. Jones, Laura H. Gardner, Harry R. Phillips, Michael H. Sketch, Jr., Richard S. Stack, and Joseph A. Puma

**ARRHYTHMIAS AND CONDUCTION DISTURBANCES**

**Control of Paroxysmal Atrial Fibrillation Recurrence Using Combined Administration of Propafenone and Quinidine** ..... 1327

Chu-Pak Lau, Moses S.S. Chow, Hung-Fat Tse, Man-Oi Tang, and Chengda Fan

**Electrophysiologic Characteristics of Diverse Accessory Pathway Locations of Antidromic Reciprocating Tachycardia** ..... 1333

David M. Luria, Sumeet S. Chugh, Thomas M. Munger, Paul A. Friedman, Robert F. Rea, Douglas L. Packer, Arshad Jahangir, Stephen C. Hammill, and Win-Kuang Shen

**CONGESTIVE HEART FAILURE**

**Usefulness of a History of Tobacco and Alcohol Use in Predicting Multiple Heart Failure Readmission Among Veterans** ..... 1339

Lorraine S. Evangelista, Lynn V. Doering, and Kathleen Dracup

**VALVULAR HEART DISEASE**

**Three-Dimensional Color Doppler Reconstruction of Intracardiac Blood Flow in Patients With Different Heart Valve Diseases** ..... 1343

Raffaele De Simone, Gerald Glombitza, Christian Friederich Vahl, Hans Peter Meinzer, and Siegfried Hagl

**Echocardiographic Assessment of the Mechanisms of Correction of Bileaflet Prolapse Causing Mitral Regurgitation With Only Posterior Leaflet Repair Surgery** ..... 1349

Leslie Cho, A. Mark Gillinov, Delos M. Cosgrove III, Brian P. Griffin, and Mario J. Garcia

**CONGENITAL HEART DISEASE**

**Right and Left Ventricular Systolic Function Late After Repair of Tetralogy of Fallot** ..... 1352

Michael A. Gatzoulis, James T. Elliott, Veena Guru, Samuel C. Siu, Mohammed Ali Warsi, Gary D. Webb, William G. Williams, Peter Liu, and Peter R. McLaughlin

**METHODS**

**Comparison of Four Echocardiographic Techniques for Measuring Left Ventricular Ejection Fraction** ..... 1358

Tamanna Nahar, Lori Croft, Robert Shapiro, Steven Fruchman, Joseph Diamond, Milena Henzlova, Joseph Machac, Samantha Buckley, and Martin E. Goldman

**BRIEF REPORTS**

**Clinical Impact of Borderline and Undiagnosed Diabetes Mellitus in Patients With Coronary Artery Disease** ..... 1363

Alexander Tenenbaum, Michael Motro, Enrique Z. Fisman, Valentina Boyko, Lori Mandelzweig, Henrietta Reicher-Reiss, Eran Graff, Daniel Brunner, and Solomon Behar

**Comparison Between Strategies Using Creatine Kinase-MB(mass), Myoglobin, and Troponin T in the Early Detection or Exclusion of Acute Myocardial Infarction in Patients With Chest Pain and a Nondiagnostic Electrocardiogram** ..... 1367

Tomas Jernberg, Bertil Lindahl, Stefan James, Gunnar Ronquist, and Lars Wallentin

**Diagnostic and Prognostic Role of Myoglobin in Patients With Suspected Acute Coronary Syndrome** ..... 1371

Thomas V. Störk, Alan H.B. Wu, Margit Müller-Bardorff, Ragnar Gareis, Reinhold Müller, Vincenz Hombach, Hugo Katus, and Martin Möckel, for the North-Württemberg Infarction Study (NOWIS) Group

**Global Impairment of Coronary Blood Flow in the Setting of Acute Coronary Syndromes (a RESTORE Substudy)** ..... 1375

C. Michael Gibson, Mukesh Goel, Sabina A. Murphy, Imran Dotani, Susan J. Marble, Lawrence I. Deckelbaum, J. Theodore Dodge, and Spencer B. King III, for the RESTORE Investigators

**Impact of Injections During Diagnostic Coronary Arteriography on Coronary Patency in the Setting of Acute Myocardial Infarction from the TIMI Trials** ..... 1378

C. Michael Gibson, Michael Anshelevich, Sabina Murphy, Lily Luu, Colin Hynes, Jen Kliris, Sarah Kermgard, Mathew H.C. Otten, Elliott M. Antman, Christopher P. Cannon, and Eugene Braunwald, for the TIMI Study Group

**Initial Results and Long-Term Clinical and Angiographic Outcome of Coronary Stenting in Women** ..... 1380

Fernando Alfonso, Rosana Hernández, Camino Bañuelos, Antonio Fernández-Ortiz, Javier Escaned, Manel Sabaté, María J. Pérez-Vizcayno, Cristina Fernández, and Carlos Macaya

**Immediate Reinitiation of Atrial Fibrillation After Electrical Cardioversion Predicts Subsequent Pharmacologic and Electrical Conversion to Sinus Rhythm on Amiodarone** ..... 1384

Trudeke Van Noord, Isabelle C. Van Gelder, Bas A. Schoonderwoerd, and Harry J.G.M. Crijns

**Acute Electrophysiologic Effect of Estradiol 17 $\beta$  in Menopausal Women** ..... 1385

Giuseppe M.C. Rosano, Filippo Leonardo, Cosimo Dicandia, Imad Sheiban, Paolo Pagnotta, Carlo Pappone, and Sergio L. Chierchia

**Internal Transcardiac Pericardiocentesis for Acute Tamponade** ..... 1388

John D. Fisher, Soo G. Kim, Kevin J. Ferrick, Jay N. Gross, Mark H Goldberger, and Michele Nanna

**Dynamics of the Uncorrected QT Interval During Vagal-Induced Lengthening of RR Intervals** ..... 1390

Agustín Castellanos, Federico Moleiro, Gustavo Lopera, Heikki Huikuri, Alberto Interian, Jr., and Robert J. Myerburg

**Effects of Carvedilol on Heart Rate and Blood Pressure Variability in Subjects With Chronic Heart Failure** ... 1392

Gianfranco Piccirillo, Riccardo Leonetti Luparini, Valdisa Celli, Antonio Maisè, Marco Lionetti, Vincenzo Marigliano, and Mauro Cacciafesta

**Effect of Surgical Repair of Secundum-Type Atrial Septal Defect on Right Atrial, Right Ventricular, and Left Ventricular Volumes in Adults** ..... 1395

Joseph Shaheen, Liat Alper, David Rosenmann, Marc W. Klutstein, George Falkowsky, Dani Bitran, and Dan Tzivoni

**Both Atenolol and Propranolol Blunt the Fibrinolytic Response to Exercise But Not Resting Fibrinolytic Potential** ..... 1398

Bo Fernhall, Linda M. Szymanski, Patrick A. Gorman, Gary H. Kamimori, and Craig M. Kessler

**READERS' COMMENTS**

**Role of Tirofiban in the Medical Treatment of the Intermediate-Risk Patient With an Acute Coronary Syndrome Cannot be Denied** ..... 1401

**Estimating the Prevalence of Aspirin Use in the Prevention of Myocardial Infarction** ..... 1402

**Low-Dose Dobutamine Imagings Predicting Regional Improvement in Left Ventricular Function After Revascularization** ..... 1403



